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A TWO-YEAR FIELD TEST OF
THE RAINFALL PLAN:
A MANAGEMENT PLAN FOR WATER
DELIVERIES TO EVERGLADES
NATIONAL PARK

July 1985 — July 1987

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
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**A TWO-YEAR FIELD TEST OF THE RAINFALL PLAN:
A MANAGEMENT PLAN FOR WATER DELIVERIES TO
EVERGLADES NATIONAL PARK**


by

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**Water Resources Division
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EXECUTIVE SUMMARY

The Rainfall Plan is a water management plan for determining the amount, timing, and distribution of surface water flow from Water Conservation Area 3A to Shark River Slough (SRS), the principal waterway in Everglades National Park (ENP). The goal of the Rainfall Plan is to provide environmental benefit to ENP by recreating hydrologic conditions in SRS compatible with the natural environment of the slough. The Rainfall Plan was developed by the South Florida Water Management District (District), in cooperation with ENP, and the Jacksonville District of the U.S. Army Corps of Engineers (COE).

The purpose of this report is to present the results of a two-year field test of the Rainfall Plan and an analysis of those results. The scope of this report is limited to the hydrology of the test with emphasis on the technical feasibility of the plan. The effectiveness of the Rainfall Plan in providing environmental benefit to ENP is to be evaluated by the District, ENP, and COE and will be the subject of subsequent reports.

The Fascell Bill (PL 98-181), passed by the U.S. Congress in 1983, allowed water managers to temporarily set aside the quota system of water deliveries to ENP in order to test alternative water management plans. The quota system, known as the Minimum Delivery Schedule, had been in effect since 1970. Two water management plans have been tested under PL 98-181. The first was the Flow-Through Plan and the second was the Rainfall Plan.

The Flow-Through Plan was implemented in June 1983 and continued for two years through May 1985. The Flow-Through Plan required the gates of the S-12 structures A, B, C, and D to be open continuously to provide unregulated discharge to SRS. There were three shortcomings of the Flow-Through Plan: (1) discharge to SRS was uncontrolled and, therefore, depended on upstream water management practices, (2) the natural dry season recession of the flow hydrograph was inhibited, and (3) no systematic discharge was made to Northeast Shark River Slough (NESRS).

The Rainfall Plan was designed to restore a more natural hydrologic condition to SRS. This was to be accomplished by three major objectives: (1) To base the amount and timing of water deliveries to SRS on recent weather conditions (rainfall and evaporation) upstream of the slough (i.e., WCA 3A), (2) To moderate the abrupt changes in flow that were caused by strict adherence to the previous WCA 3A regulation schedule that was governed by the Minimum Delivery Schedule, and (3) To redistribute flow across the entire slough (i.e., to restore flow to NESRS).

The two-year test of the Rainfall Plan was conducted only after the District and the Rocky Glades residents and farmers (farmers) had negotiated and signed an agreement governing the implementation of the test. The farmers were concerned that restoration of flow to NESRS would increase the flood risk to their property. The agreement for the two-year test had three major provisions concerning the implementation of the test: (1) regulation of groundwater and surface water levels in the Rocky Glades area by regulation of water levels in the L-31N canal, (2) interruption of flow to NESRS when groundwater levels in the Rocky Glades area exceeded acceptable limits, or reduction of S-333 flow when water levels in the L-29 canal approached a maximum limit, and (3) supplying field data from the test to the farmer's engineering consultant.

The two-year test of the Rainfall Plan began on July 11, 1985. The Rainfall Plan continues to be in effect since the participating agencies agreed to keep the plan operational pending the outcome of the Corps of Engineers General Design Memorandum (GDM) for the East Everglades. Because of the continuation of the test, the period of data collection for some of the areas has been longer than originally anticipated. Although called the two-year test in this report, the test period is longer than two years and in fact, continues. This report considered data from the beginning of the test through the end of the 1987 wet season (i.e., the end of October 1987).

The desired, or target, flow to SRS specified by the Rainfall Plan was computed as the sum of a rain-driven component and a regulatory component. The rain-driven component was determined by a statistical formula that related flow to current and antecedent upstream weather conditions. The regulatory component depended on the average water level in WCA 3A and was necessary to maintain water levels within the regulation schedule for WCA 3A. The target flow was computed weekly and surface water was released from WCA 3A to two parts of the slough: (1) directly to ENP via the S-12 structures, and (2) to NESRS via S-333 and the culverts under Tamiami Trail.

The findings of this report of the two-year test of the Rainfall Plan are discussed with regard to the objectives of the Rainfall Plan, to the terms of the Test Agreement, and to the overall hydrology of the area receiving surface water under the Rainfall Plan.

Objective 1 - Amount and Timing of Flow

A statistical formula was developed and then used to calculate surface water flow to SRS as a function of rainfall and evaporation rates in WCA 3A and of the previous week's flow rate to SRS (i.e., the rain-driven component). As a result, flow to SRS was more variable and was more responsive to upstream conditions than under the Minimum Delivery Schedule. Under the Rainfall Plan, dry season flow rates decreased more quickly and receded further (these are desirable effects) than under the Flow-Through Plan.

The regulatory component of the target discharge during the 1985 and 1986 wet seasons was as much as twice the rain-driven component, significantly increasing the target flow to SRS. The significance of these large regulatory releases to the environmental well-being of Everglades National Park has yet to be determined.

Analysis showed that the Interim Action Plan (IAP), the water management plan in effect in the Everglades Agricultural Area (EAA) upstream of WCA 3A, contributed about one-third of the volume of the large WCA 3A regulatory releases.

Discharge through S-333 was restricted during significant periods of the test because water levels in the L-29 canal were limited to less than 7.5 feet. These were usually periods when the Rainfall Plan called for large discharge (greater than 1000 cfs through S-333). Because of the restricted discharge through S-333, the actual discharge to SRS was often less than target (only 85 percent of the target SRS flow was met for the period of the test). Discharge was restricted only during the wet seasons of 1985 and 1986; dry season discharge was always on target. If the large regulatory releases had not been required, and the target discharge had been based only on the rain-driven component, the target discharge through S-333 could have been met at nearly all times during the test.

Objective 2 - Moderation of Abrupt Changes in Flow

The abrupt changes in flow experienced under the previous WCA 3A regulation schedule were moderated under the Rainfall Plan by the addition of transition zones to the schedule. Hydrographs of discharge to SRS under the Rainfall Plan exhibited a more natural response to current and antecedent upstream weather conditions. This natural response was illustrated by smooth, gradual rises in the hydrograph and extended recessions.

Objective 3 - Spatial Distribution of Flow

Large amounts of surface water were discharged to NESRS during the test, making the spatial distribution of flows to SRS more like the historic spatial distribution.

Although flow was reintroduced to the full width of the slough, the desired distribution of flow across the slough, 45 percent through the S-12 structures directly into ENP and 55 percent through S-333 to NESRS, could not be achieved for those periods during the test when discharge through S-333 was restricted. Over the period of the test, only 38 percent of the target SRS flow was made to NESRS. The target of 45 percent of the discharge through the S-12 structures was met or exceeded at all times during the test. The actual flow to SRS was split 43 percent through S-333 and 57 percent through the S-12 structures. The percentage of the surface water flow to SRS that was discharged to NESRS decreased with total SRS discharge - the inverse of the historic relationship between these parameters. If the large regulatory releases had not been required, and the target discharge had been based only on the rain driven component of discharge, there would have been little difficulty in achieving the desired spatial distribution of flow across the slough.

Terms of the Test Agreement

The two-year test of the Rainfall Plan was implemented in compliance with the agreement between the District and the south Dade County farmers.

Regulating the water level of the L-31N canal was effective in moderating groundwater levels in the Rocky Glades area. Water levels in the Rocky Glades area did not increase with the implementation of the Rainfall Plan. There is evidence to suggest that water levels in this area was lower during the test than prior to the test.

S-333 was closed as required by conditions of the test; however, closing S-333 when the water level in G-3273 exceeded its trigger level was unnecessary. Groundwater levels at G-3273, the trigger for closure of S-333 under the conditions of the test, did not respond to closure of S-333. Since the Rocky Glades area is down-gradient of G-3273, it is likely that groundwater levels in the Rocky Glades area also did not respond to closure of S-333.

Large volumes of NESRS groundwater were removed from the Rocky Glades area by the L-31N canal during the test. Most of this water was pumped south to the C-111 basin by S-331. The volume of seepage to the L-31N canal during the test exceed that prior to the test by about 18 percent.

Shark River Slough Hydrology

Most monitoring sites in the slough experienced 12 month hydroperiods with water depths that varied seasonally.

Water levels in SRS were directly affected by surface water inflow under the Rainfall Plan: almost all gaged sites reported water levels rising and falling in accordance with discharges at the S-12 structures and S-333. The magnitude of the effect decreased with distance from the discharging structures. Direct rainfall also had a pronounced affect on water levels in the slough. Estimates of the volume of water contributed by rainfall (848,500 acre-feet) and by surface water inflows (508,500 acre-feet) to the NESRS area during the test suggest that both are important in affecting water levels in the slough.

A water budget was determined for the NESRS area for the 1986-87 hydrologic year. Rainfall and surface inflows accounted for almost all inflows to the area and made roughly equal contributions (53 percent of total inflows for rainfall and 42 percent for surface water inflows). As water levels were generally higher on the west side of L-67 Extension than on the east, there was a net seepage of water into NESRS. This seepage accounted for 5 percent or less of the total inflows to NESRS.

Evapotranspiration accounted for most of the water lost from the area (57 percent of the total losses). Seepage to the L-31N borrow canal was the next largest loss, but was only half as large as the loss to evapotranspiration. Water was also lost from the NESRS area by seepage to WCA 3B through L-29 (about 6 percent of total losses) and to regional groundwater (about 10 percent of total losses). Surface water outflows from the area into ENP around the end of L-67 Extension happened only occasionally. Over the period of the test, the net surface water outflow term was probably negative, that is, there was a net inflow of water to the NESRS area around the end of L-67 Extension.

TABLE OF CONTENTS

	<u>Page</u>
EXECUTIVE SUMMARY	i
LIST OF FIGURES	vi
LIST OF TABLES	vii
ABSTRACT	ix
KEY WORDS	ix
ACKNOWLEDGMENTS	x
I. INTRODUCTION	1
II. THE RAINFALL PLAN	6
A. Amount and Timing of Flow	6
B. Moderation of Abrupt Changes in Flow Rate	8
C. Distribution of Flow	8
III. PREVIOUS FIELD TESTS	13
IV. THE TWO-YEAR TEST AGREEMENT	15
A. Regulation of Water Levels in the Rocky Glades Area	15
B. Interruption of Flow to NESRS	18
C. Field Data	18
V. RESULTS	19
A. Rainfall Conditions During the Test	19
B. Discharge to Shark River Slough	20
1. Target Discharge	22
2. Actual Discharge	22
3. Discharge to NESRS	26
4. Discharge to ENP	29
C. Water Levels in the Trigger Wells and the L-31N Canal	32
VI. ANALYSIS OF THE RESULTS	38
A. Meeting the Objectives of the Rainfall Plan	38
1. Amount and Timing of Flow	38
2. Moderation of Abrupt Changes in Flow	42
3. Spatial Distribution of Flow	42
B. Special Topics Related to the Implementation of the Rainfall Plan	46
1. WCA 3A Regulatory Discharge	46
2. Operational Policy Regarding Discharge Through the S-12 Structures	51
C. Hydrologic Condition of Shark River Slough	52
1. Water Levels in SRS	52
a. Water Levels in Northeast NESRS	52
b. Water Levels in ENP west of L-67 Extension	56
c. Water Levels near L-67 Extension	58

2. Water Movement in NESRS	61
3. Water Budget for the NESRS Area	67
D. Flood Risk to the Rocky Glades Area	69
1. Background	69
2. Did the Flood Risk to the Rocky Glades Area Increase During the Test?	72
a. Effects on Groundwater Levels	72
b. Effects on the L-31N Canal Water Levels	87
3. Did the District Comply with the Test Agreement?	91
a. S-333 Operation	91
b. L-31N Canal Operation	93
VII. SUMMARY AND CONCLUSIONS	94
REFERENCES	98
APPENDICIES	
A. The Rainfall Plan - Technical Details	A-1
B. Topographic and Soils Information - NESRS Area	B-1
C. NESRS Area Water Budget - Methodology for Estimating Components ..	C-1
D. Field Data	D-1
E. Comment on this Report by Florida Lime and Avocado Administrative Committees	E-1

LIST OF FIGURES

1 Site Features	2
2 Historic and Present Drainage Patterns of the Everglades	3
3 Regulation Schedule for WCA 3A	9
4 Relationship Between Percentage of Discharge to Eastern Flow Section and Total Discharge to Shark River Slough	12
5 Hydrologic Data Monitoring Sites	16
6 Comparison of Rainfall Plan Component Discharges and Minimum Delivery Schedule Discharge	23
7 Comparison of Target and Actual Discharge to Shark River Slough	24
8 Comparison of Target and Actual Discharge to NESRS through S-333 ..	27
9 Comparison of Target and Actual Discharge to ENP through the S-12 Structures (A, B, C, and D)	30
10 Comparison of WCA 3A Water Level to its Regulation Schedule	31
11 Comparison of Angel's Well and L-31N Water Levels North of S-331	33-34
12 L-31N Canal Water Levels South of S-331	35
13 Comparison of G-3273 Well Water Levels and S-333 Operation	36
14 Comparison of L-29 Canal Water Levels and S-333 Operation	37
15 Discharge to SRS Under the Rainfall Plan, the Minimum Delivery Schedule, and the Flow-Through Plan	39-40
16 Relationship Between Percentage of Discharge to NESRS and Total Discharge to SRS During the Two-Year Test	44
17 Seasonal Discharge to SRS from 1979-1987	45
18 Effects of Rainfall on WCA 3A Water Levels	48
19 WCA 3A Water Levels and SRS Flow: Simulated Assuming the IAP Had Not Been in Effect	50
20 SRS Flow and WCA 3A Water Levels: Simulated Assuming the S-12 Structures Passed the Flow that S-333 Could Not	53
21 Hydrologic Data Monitoring Sites - NESRS Area	54

22	Water Levels and Rainfall in, and Inflow to, Northeast NESRS	55
23	Water Levels and Rainfall in, and Inflow to, ENP West of L-67 Extension	57
24	Water Levels Near the Central Reach of L-67 Extension	59
25	Water Levels Near the Southern End of L-67 Extension	60
26	Water Levels in NESRS on July 25, 1984: Wet Condition Prior to the Two-Year Test	63
27	Water Levels in NESRS on May 10, 1985: Dry Condition Prior to the Two-Year Test	64
28	Water Levels in NESRS on August 19, 1986: Wet Condition During the Two-Year Test	65
29	Water Levels in NESRS on June 1, 1986: Dry Condition During the Two-Year Test	66
30	Water Budget Components for the NESRS Area	68
31	Water Budget for the NESRS Area (1986-87 Hydrologic Year)	70
32	NESRS Monthly Rainfall	73
33	Cumulative Rainfall Distributions for the NESRS Area	74
34	Effect of Rainfall on Rocky Glades Groundwater Levels	76
35	Effect of the L-31N Canal on Rocky Glades Groundwater Levels	77
36	Effect of NESRS Discharge on Rocky Glades Groundwater Levels	78
37	Cross-correlations Between G-596, G-1502, G-3273, and Angel's Well for the Period June, 1985 through May, 1986	80-81
38	Percent-Exceedance Curves for G-1502 Water Levels	83
39	Percent-Exceedance Curves for G-596 Water Levels	84
40	Seepage into the L-31N Canal Prior to and During the Test	88
41	Effect of Rainfall and S-331 Discharge on L-31N Water Levels	89
42	Percent-Exceedance Curves for Water Levels in the L-31N Canal North of S-331	90
43	Percent-exceedance Curves for Water Levels in the L-31N Canal South of S-331	92

LIST OF TABLES

1	Water Conservation Area 3A Regulation Schedule	10
2	Data Monitoring Sites and Corresponding Map Locations	17
3	Rainfall Conditions in NESRS, WCA 3A, and the EAA.	21
4	Target and Actual Discharge from WCA 3A to Shark River Slough	25
5	Comparison of Surface Water Flow and Rainfall Volumes to NESRS	28
6	Seasonal Flow Volumes to Shark River Slough Under Different Water Management Plans	41
7	Actual and Simulated WCA 3A Inflows	49
8	Wet Season, Dry Season, and Annual Rainfall for the NESRS Area	75
9	Linear Regression Analysis Results for G-1502 and G-596 Versus Angel's Well	85
10	Percent of Time Critical Water Levels Were Exceeded at G-1502, G-596, and Angel's Well	86

ABSTRACT

The Rainfall Plan, a water management plan for determining the amount, timing, and distribution of flow to Shark River Slough, the principal waterway in Everglades National Park, was tested from July 1985 through July 1987. The goal of the Rainfall Plan was to provide environmental benefit to Everglades National Park by creating hydrologic conditions in Shark River Slough compatible with the natural environment of the slough.

The target flow to Shark River Slough specified by the Rainfall Plan was determined by the sum of a statistical model component and a regulatory component. Surface water was released from WCA 3A to two parts of the slough: (1) directly to the northern part of Everglades National Park via the S-12 structures, and (2) to Northeast Shark River Slough via S-333 and the culverts under Tamiami Trail.

The flow to the slough determined by the statistical model was shown to re-establish important aspects of the pre-development pattern of flow by creating a flow hydrograph that was natural in character with gradual increases in flow and long recessions. Large regulatory releases from WCA 3A were required for significant periods during the test, increasing target flows to the slough by as much as twice those called for by the statistical model. During the times when large regulatory releases were required, the desired volume and distribution of flow could not be achieved because of restrictions on discharge to Northeast Shark River Slough.

Key Words: Environmental Restoration, Everglades National Park, Hydrology, Rainfall Plan, Shark River Slough, Surface Water Flow, Two-Year Field Test, Water Management.

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This report was written under the supervision of Shawn Sculley and Richard Tomasello, Supervising Professional Engineers, Water Resources Division, Department of Research and Evaluation (previously the Department of Resource Planning), and Thomas MacVicar, Deputy Executive Director.

I. INTRODUCTION

This report presents a detailed hydrologic analysis of a two-year field test of the "Rainfall Plan". The Rainfall Plan is a water management plan for determining the amount, timing, and distribution of surface water discharge from Water Conservation Area (WCA) 3A to Shark River Slough (SRS) (Figure 1), the principal waterway in Everglades National Park (ENP). The goal of the Rainfall Plan is to provide environmental benefit to ENP by recreating hydrologic conditions in SRS compatible with the natural environment of the slough. The Rainfall Plan was developed by the South Florida Water Management District (District), in cooperation with ENP, and the Jacksonville District of the U.S. Army Corps of Engineers (COE).

The purpose of this report is to present the results of the test of the Rainfall Plan and an analysis of those results. The scope of this report is limited to the hydrology of the test with emphasis on the technical feasibility of the plan. The effectiveness of the Rainfall Plan in providing environmental benefit to ENP is to be evaluated by the District, ENP, and the COE and will be the subject of subsequent reports.

Prior to development in South Florida, SRS received its water from local rainfall and by surface flow from the Everglades to the north (Figure 2(A)). Beginning early in the 20th century, the timing and amount of surface water flow to SRS¹ was increasingly influenced by man's activities in South Florida. Leach, Klein, and Hampton (1972) discuss these influences in detail. Those parts of their report relevant to the Rainfall Plan are summarized below.

By 1945, drainage and land reclamation activities in South Florida had lowered surface water and groundwater levels near the Everglades in the lower east coast region from predevelopment levels. Beginning in 1945, control structures were installed in the major canals discharging to the Atlantic Ocean to prevent overdrainage during the dry season and to reduce intrusion of sea-water into the Biscayne aquifer. In 1953 the levee system along the eastern edge of the Everglades was completed. Flow to the Atlantic Ocean by way of the Hillsboro, the North New River, and the West Palm Beach canals was reduced by 25 percent after 1953 compared to flow for the previous twelve years (Leach et al., 1972, pg. 98). The flow was diverted to the south through the Everglades with most of the increase in flow (as measured under the Tamiami Trail) occurring in the eastern flow section.

¹In this report, surface water flow to SRS was considered to be all flow passing under the Tamiami Trail between L-30 and 40 Mile Bend (Figure 1). An eastern flow section was defined between L-30 and L-67 Extension, and a western flow section was defined between L-67 Extension and 40 Mile Bend. In order to compare the distribution of flow prior to and after development, these same flow sections were also "defined" for times prior to the existence of the levees.

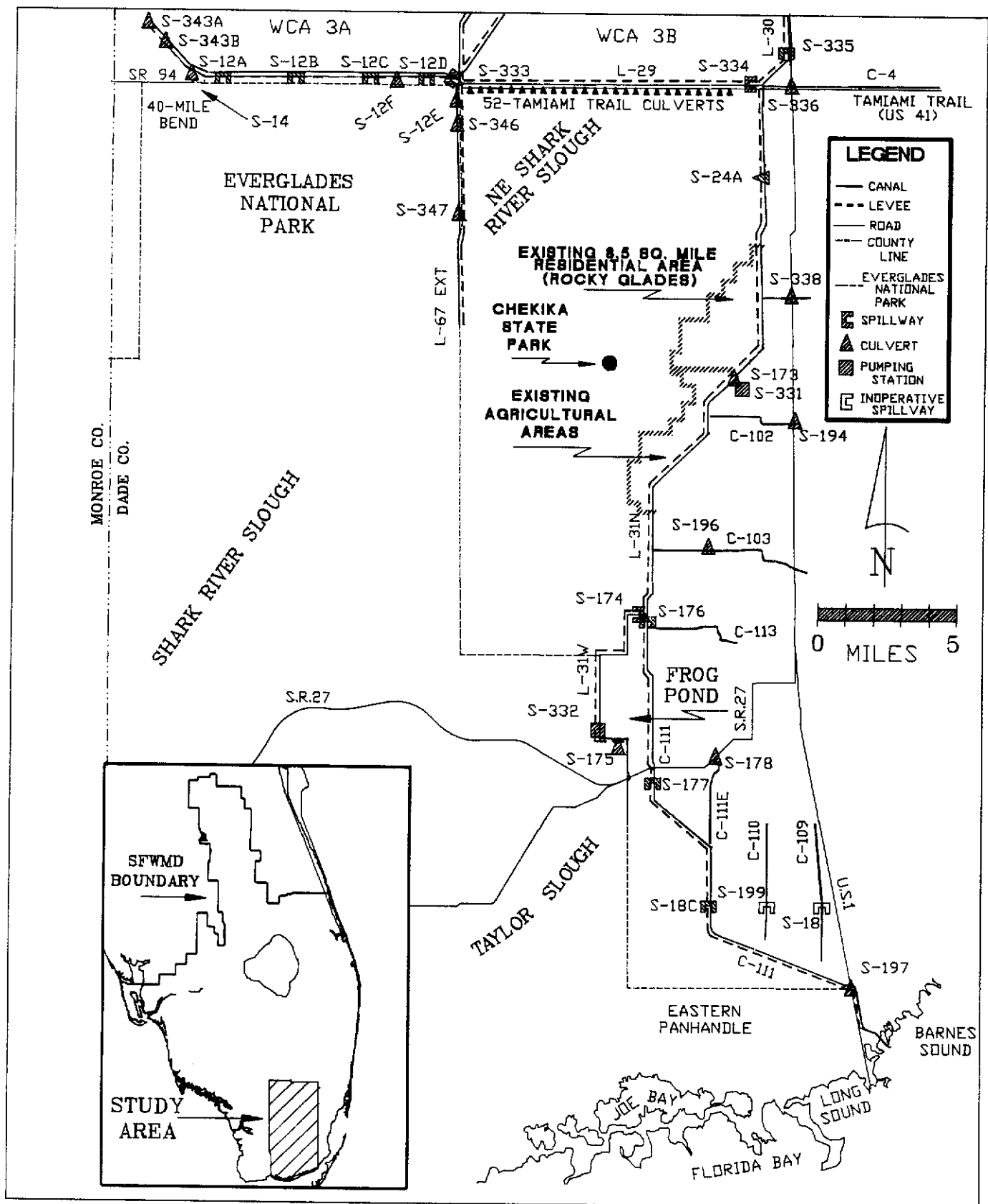


Figure 1. Site Features

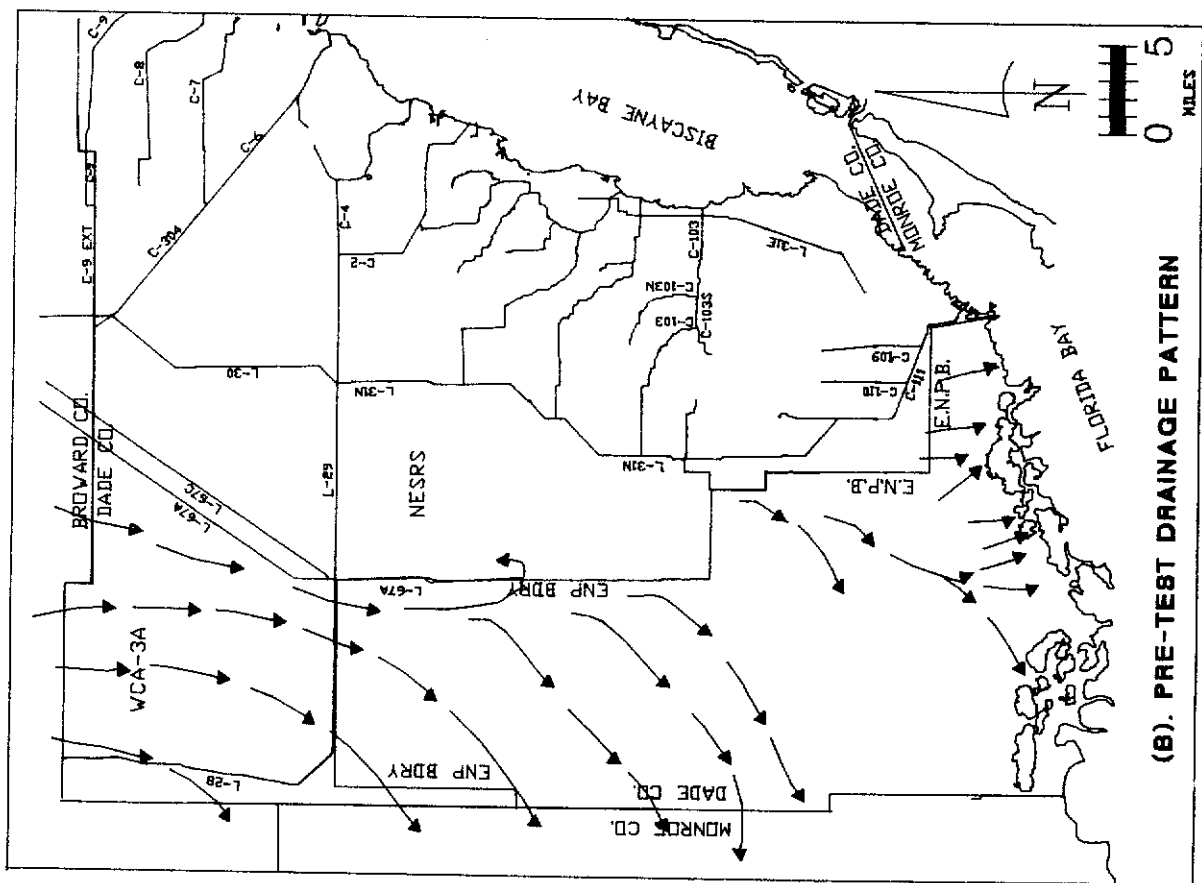
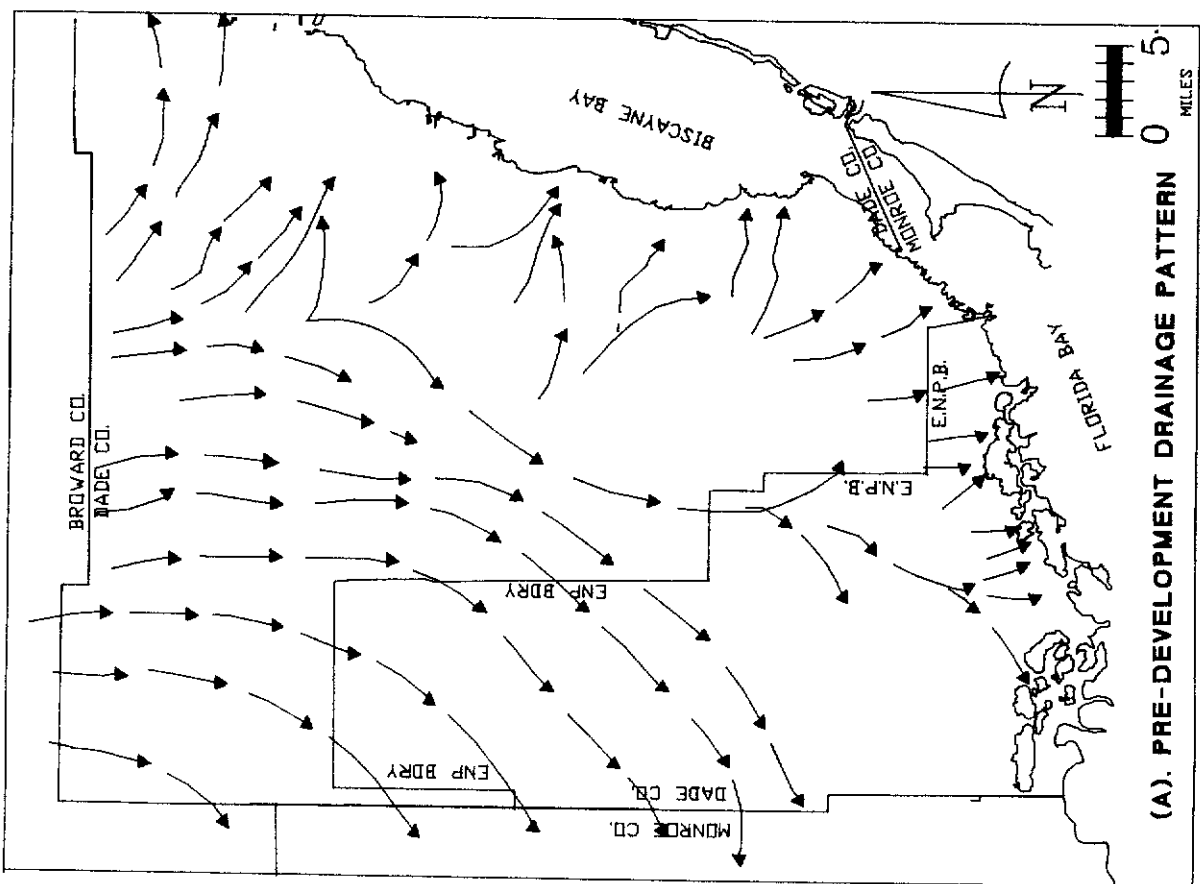


Figure 2. Historic and Present Drainage Patterns of the Everglades

In 1963 the COE completed L-29, enclosing WCA 3A. This project had two significant impacts on the hydrology of SRS:

1. Almost all surface water flowing south through the Everglades to SRS was controlled by the S-12 structures. As a result, surface water flow to SRS became largely a function of water management policy rather than of nature (Figure 2(B)).

2. Surface water flow to the northeast part of SRS (NESRS) was mostly eliminated. Seepage from WCA 3B under L-29 to the borrow canal and subsequently through the culverts under Tamiami Trail to NESRS (eastern flow section) was about fifteen percent of what surface flow had been from 1953 to 1961 and about half of what it had been from 1941-1953. Much of the original surface flow through the eastern flow section to NESRS was diverted to the western flow section. Flow in the western flow section increased to three times what it had been from 1941 to 1953 and to twice what it had been from 1953 to 1961 (Leach et al., 1972).

The completion of WCA 3A coincided with the onset of a three-year period of below normal rainfall. WCA 3A did not fill and no discharges were made to ENP. The lack of flow to ENP probably worsened the drought conditions in ENP. Wild fires in ENP were worse than usual and it was apparent that, without immediate changes in water management, the ecology of ENP would suffer a steady, irreversible decline.

In response to ENP's concerns about water supply, the COE constructed the L-67 Extension canal in 1967 to allow more water to be delivered to the central part of SRS during droughts. This project also had two significant impacts on the hydrology of SRS:

1. The L-67 Extension levee isolated NESRS from the rest of the slough. There was no longer free flow of surface water from east to west (or west to east) although some seepage occurred from west to east under the levee.

2. Although the L-67 Extension canal was constructed to benefit ENP by providing water supply during drought conditions, it had the adverse consequence of allowing too much water into the central part of the slough during above normal rainfall.²

In 1970 the U.S. Congress established legislation (PL 91-282) to guarantee minimum water deliveries to ENP and to authorize construction of the necessary conveyance facilities. Delivery schedules were established that required minimum monthly water deliveries to three areas of ENP: (1) to SRS, (2) to Taylor Slough, and (3) to the eastern panhandle of ENP. Water deliveries to SRS were made through the S-12 structures. The South Dade Conveyance System (SDCS) (USACOE, 1973) was constructed to provide the conveyance facilities necessary to achieve the minimum deliveries to Taylor Slough and the eastern panhandle of ENP. Water deliveries made by the SDCS originate in WCAs 3A and 3B. Water from WCA 3A is discharged

²Two control structures (S-346 and 347) were placed in the L-67 Extension canal. Both are culverts with control of water flow effected by risers and stop logs. These structures have been closed since their construction to prevent rapid discharge of water to the center of SRS, but could be opened if necessary.

through S-333 into the L-29 canal and flows into the L-31N canal after passing through S-334³. Water from WCA 3B is discharged into the L-30 canal and flows south through S-335 to the L-31N canal south of L-29. From the intersection of the L-29 and L-31N canals, flow is south through the L-31N canal to the S-331 pump station. S-331 pumps the flow downstream through L-31N to S-174, where some of it passes through S-174 to L-31W and is pumped to Taylor Slough via S-332. While the remaining flow passes through S-176 into C-111, through S-18C, and eventually to the eastern panhandle of ENP via the gaps in the south berm of C-111 between S-18C and US 1.

The water delivery schedule for SRS went into effect in October 1970; whereas the water delivery schedules for Taylor Slough and the eastern panhandle of ENP went into effect in 1983 when the SDCS was completed. Although these three authorized water delivery schedules are all known as minimum delivery schedules, only the SRS schedule is relevant to this report and it is referred to as the Minimum Delivery Schedule.

The 1970's were a period of intense research on the Everglades system. It became apparent during the 1970's that the disruptions in the hydrologic condition of SRS were only partially mitigated by the Minimum Delivery Schedule. In the early 1980's it became clear that a comprehensive water management plan was needed, one that was compatible with the natural environment of ENP.

In 1983 the U.S. Congress passed legislation (PL 98-181) which allowed the District, COE, and ENP to temporarily set aside the Minimum Delivery Schedule and to begin a series of field experiments to test proposed management plans for making water deliveries to SRS. The two-year test of the Rainfall Plan is the latest iteration of these tests.

³Since completion of the SDCS in 1983, some surface water has been discharged to the slough whenever discharge has been made for the SDCS by way of S-333 to the L-29 canal (and subsequently through S-334 to the L-31N canal). Since the culverts under Tamiami Trail connecting the L-29 canal to NESRS are uncontrolled, some discharge to the slough is unavoidable.

II. THE RAINFALL PLAN

The goal of the Rainfall Plan is to provide environmental benefit to ENP by returning the hydrology of SRS to a condition compatible with the natural environment of ENP. In formulating the Rainfall Plan, it was believed that there were three critical objectives: (1) To base the amount and timing of water deliveries to SRS on recent weather conditions (rainfall and evaporation) upstream of the slough (i.e., in WCA 3A), (2) To moderate the sudden changes in flow that were caused by strict adherence to the WCA 3A Regulation Schedule⁴, and (3) To redistribute flow across the entire slough (i.e., to restore flow to the eastern flow section to NESRS).

A. Amount and Timing of Flow

For natural, unmanaged systems, surface water flow into an area is driven by upstream weather conditions. One of the most important characteristics of surface water flow driven by natural upstream weather conditions is the natural variability in the amount and timing of flow. An important feature, then, of any model used to determine surface water flow to SRS would be the ability to reproduce the natural variability of predevelopment flows.

Under the Minimum Delivery Schedule, water deliveries were made according to a set schedule. Deliveries were made without regard to upstream meteorological conditions. The amount and timing of surface water flow to SRS were not variable under this plan except under flood conditions. The model used by the Rainfall Plan during the two-year test is based on a statistical correlation between historical upstream weather conditions in WCA 3A and historical discharge to the slough. The correlation is based on a period of the hydrologic record obtained prior to significant man-caused modification of the spatial and temporal distribution of surface water flow to SRS. The statistical model relating surface water flow into SRS to upstream weather conditions takes the form of a multiple regression formula. The variables in the formula are expressed as deviations from their respective means. Discharge is computed on a weekly basis.

The formula relates the current week's flow rate to the previous week's rate and the rainfall and evaporation in each of the previous ten weeks.

$$q(t) = CQ(q(t-1)) + \sum_{i=1}^3 CR_i RE_i \dots \dots \dots (1)$$

⁴A regulation schedule specifies the outlet operational strategy for a reservoir (e.g., a WCA) as a function of the water level in the reservoir and the time of year. In general, a regulation schedule optimizes the reservoirs ability to receive excess water in the wet season and to provide water supply in the dry season.

Where

$$q(t) = [Q(t) - Q_{mean}(t)]$$

$$RE_1 = \sum_{j=1}^2 [r(t-j) - Ke(t-j)],$$

$$RE_2 = \sum_{j=3}^6 [r(t-j) - Ke(t-j)],$$

$$RE_3 = \sum_{j=7}^{10} [r(t-j) - Ke(t-j)],$$

$$r(t) = [RF(t) - RF_{mean}(t)]$$

$$e(t) = [EVP(t) - EVP_{mean}(t)]$$

and where $Q(t)$ is the discharge (cfs) into SRS during week t , $Q_{mean}(t)$ is the historic mean discharge (cfs) to SRS for week t , $RF(t)$ is the rainfall (inches) during week t , $RF_{mean}(t)$ is the historic mean rainfall (inches) for week t , $EVP(t)$ is the pan evaporation (inches) during week t , $EVP_{mean}(t)$ is the historic mean pan evaporation (inches) for week t , and K is the pan evaporation coefficient. Equation 1 is known as the rain-driven formula. Note that the formula is not based strictly on rainfall as the term "rain-driven" may imply, but it is based on current and antecedent rainfall and evaporation.

The regression coefficients (CQ and CR_i) for Equation 1 were determined from observed data: flow under Tamiami Trail from the north to SRS, and rainfall and evaporation for the area that is now WCA 3A. Complete sets of these data were available beginning in 1941. Because of the changes in slough hydrology that occurred after 1953 with the completion of L-31N and L-30, the period of record from 1941 to 1952 was chosen to best represent the response of surface water flow to SRS to upstream weather conditions. Technical details of the rain-driven formula are presented in Appendix A.

With the current system of canals, structures, and levees, the amount and timing of surface water flow to SRS cannot be based solely on historic response to upstream weather conditions. The storage capacity of the WCAs to the north is limited, and water in excess of the storage capacity of the WCAs must be discharged to prevent failure of the impounding levees. Excess water is released from the WCAs primarily by way of the S-12 structures. Regulatory releases are also made through S-333, S-151 (Figure 5), and the L-28 culverts (S-343A, S-343B, and S-344). The amount and the timing of discharge through these structures are functions of the water level in WCA 3A and its regulation schedule.

If the amount of water to be discharged to SRS as determined by the statistical model is not enough to keep the water level in WCA 3A within the regulation schedule, a regulatory release of water must be made in addition to the discharge calculated by the statistical model. The addition of a regulatory component

to the discharge into SRS was also necessary under the Minimum Delivery Schedule. Regulatory discharge would be necessary under any plan that did not call for a volume of discharge sufficient to keep the water level in WCA 3A below the regulation schedule.

B. Moderation of Abrupt Changes in Flow Rate

The Rainfall Plan improves the way regulatory discharges are made. Under the Minimum Delivery Schedule, excess water in WCA 3A was released according to the previous WCA 3A regulation schedule (Figure 3 dashed line). Adherence to the regulation schedule caused abrupt changes in the rate at which water was released to SRS. For the Rainfall Plan, the Regulation Schedule for WCA 3A has been modified so that a gradual change in the flow rate of water from WCA 3A occurs as its water level changes. This was accomplished by adding a transition zone to the existing regulation schedule (Figure 3 and Table 1). If the water level in WCA 3A is within the transition zone, the regulatory component of discharge is calculated by the formula

$$Q_{trans}(t) = 2500[S(t) - S_{min}(t)]; Q_{trans} \geq 0 \quad \dots\dots\dots (2)$$

where $Q_{trans}(t)$ is the regulatory component of discharge (in cfs) when the water level in WCA 3A is in the transition zone, $S(t)$ is the water level (in feet) at the beginning of week t , and $S_{min}(t)$ is the water level (in feet) at the bottom of the transition zone at the beginning of week t . The coefficient in this equation (i.e., 2500 cfs) was chosen so that the discharge rate from WCA 3A would be at, or near, the capacity of the discharging structures by the time the water level in WCA 3A reached Zone A. When the water level in WCA 3A is in Zone A, the maximum discharge (for existing headwater and tailwater conditions) is made through the S-12 structures and through S-333. Note that under the current implementation of the Rainfall Plan, operation of S-333 may be restricted by the terms of the test agreement (see Section IV).

The desired surface water flow into SRS from WCA 3A is the sum of the amounts determined from the rain-driven component (i.e., calculated from the statistical model) and the regulatory component

$$Q_{target}(t) = Q_{mean}(t) + q(t) + Q_{trans}(t) \quad \dots\dots\dots (3)$$

where $Q_{target}(t)$ is the total or target discharge to SRS, $Q_{trans}(t)$ is given by Equation 2, and $q(t)$ is given by Equation 1.

C. Distribution of Flow

The third objective of the Rainfall Plan is to return surface water flow to the entire width of SRS instead of confining the flow to the western flow section. Achieving this objective during the two-year test required reintroduction of surface water flow to NESRS.

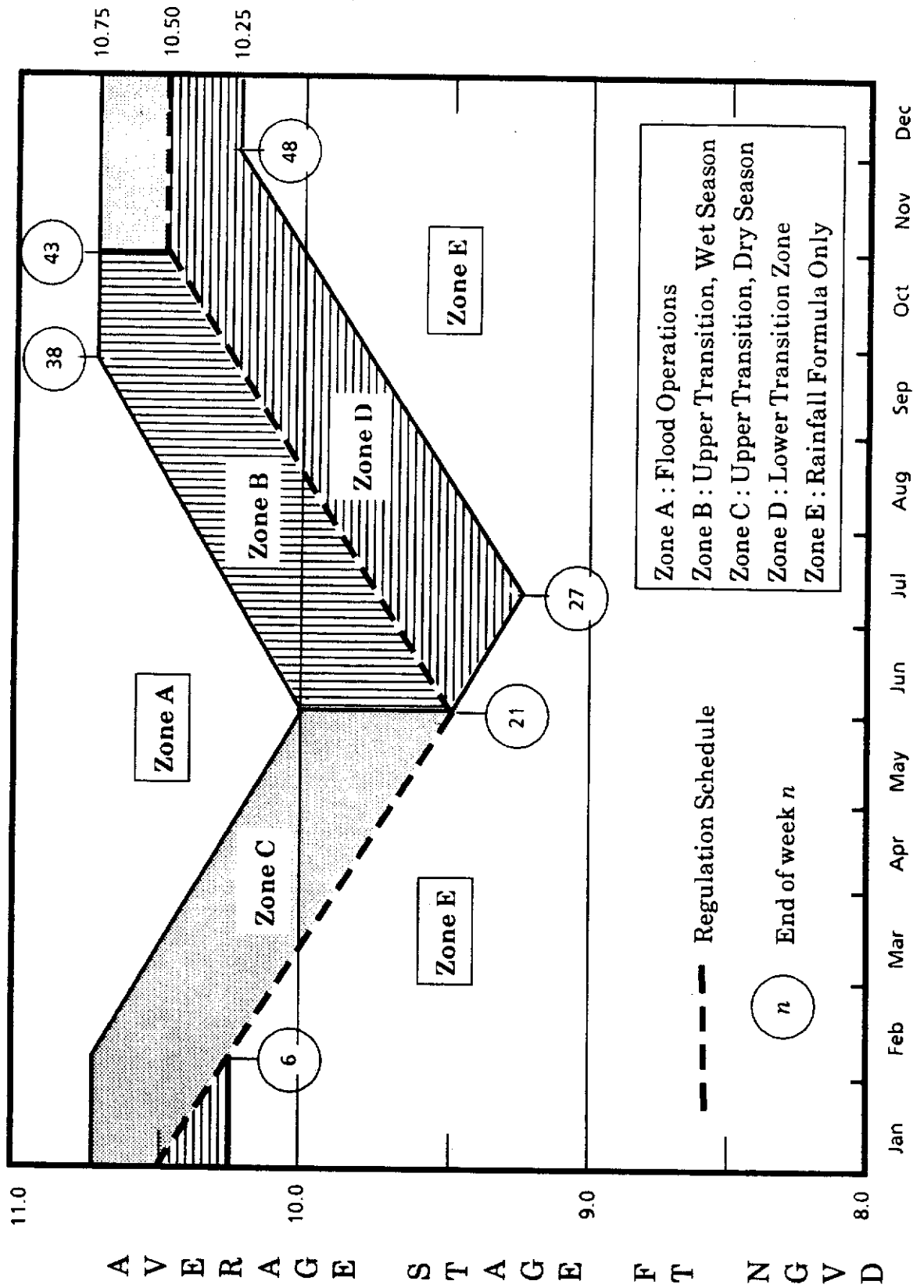


Figure 3. Regulation Schedule for WCA 3A

Table 1. Water Conservation Area 3A Regulation Schedule

	S - 12 s	S - 333	S - 151	L - 28 Culverts
Zone A	Open Full	Maximum allowable discharge	Maximum diversion to 3B when 3B stage is less than 8.5 feet	S-343A & B and S-344 open full if no problems downstream
Zone B	S-333 Open; Discharge 45% of target flow S-333 Closed; Discharge at least 73% of target flow.(up to 100% if desired by ENP)	Discharge up to 55% of target flow when permitted by this agreement	Same as Zone A whether S-333 is open or closed.	Same as Zone A whether S-333 is open or closed.
Zone C	S-333 Open; Discharge 45% of target flow S-333 Closed; Discharge 45% of target flow plus all or part of S-333's amount if desired by ENP.	Same as Zone B	May be used to divert water from WCA-3A whether S-333 is open or closed	May be used to divert water from WCA-3A whether S-333 is open or closed
Zone D	S-333 Open; Discharge 45% of target flow S-333 Closed; Discharge 45% of target flow plus all or part of S-333's amount if desired by ENP.	Same as Zone B	Used only for water supply deliveries to Dade County	Closed
Zone E	Discharge 45% of target flow whether S-333 is open or closed.	Same as Zone B	Used only for water supply deliveries to Dade County	Closed

The distribution of surface water flow to the eastern and western flow sections is an important consideration. For the hydrologic years⁵ prior to construction of L-31N and L-30, the distribution of surface water flow to the eastern and western flow sections was a function of discharge (Figure 4). For flow up to about 500,000 acre-feet per year, the percent of flow to the eastern flow section increased with discharge. For flow greater than 500,000 acre-feet per year, the percent flow to the eastern flow section remained constant at about 60 percent. For purposes of the two-year test, a trial split of 45 percent of the total flow to the western flow section (to ENP) and 55 percent to the eastern flow section (to NESRS) was agreed upon by the District, the COE, and ENP.

During the test, discharge to the western flow section from WCA 3A was by way of the S-12 structures (i.e., S-12A, S-12B, S-12C, and S-12D) and discharge to the eastern flow section from WCA 3A was by way of S-333 and the L-29 canal (Figure 1). There are 52 culverts under the Tamiami Trail connecting the L-29 canal to NESRS. Rate of discharge through the culverts is determined by the discharge at S-333 and the water level held in the L-29 canal by S-334.

⁵A hydrologic year is defined here as the period from June 1 to May 31 of the following calendar year so as to include one complete wet and one complete dry season.

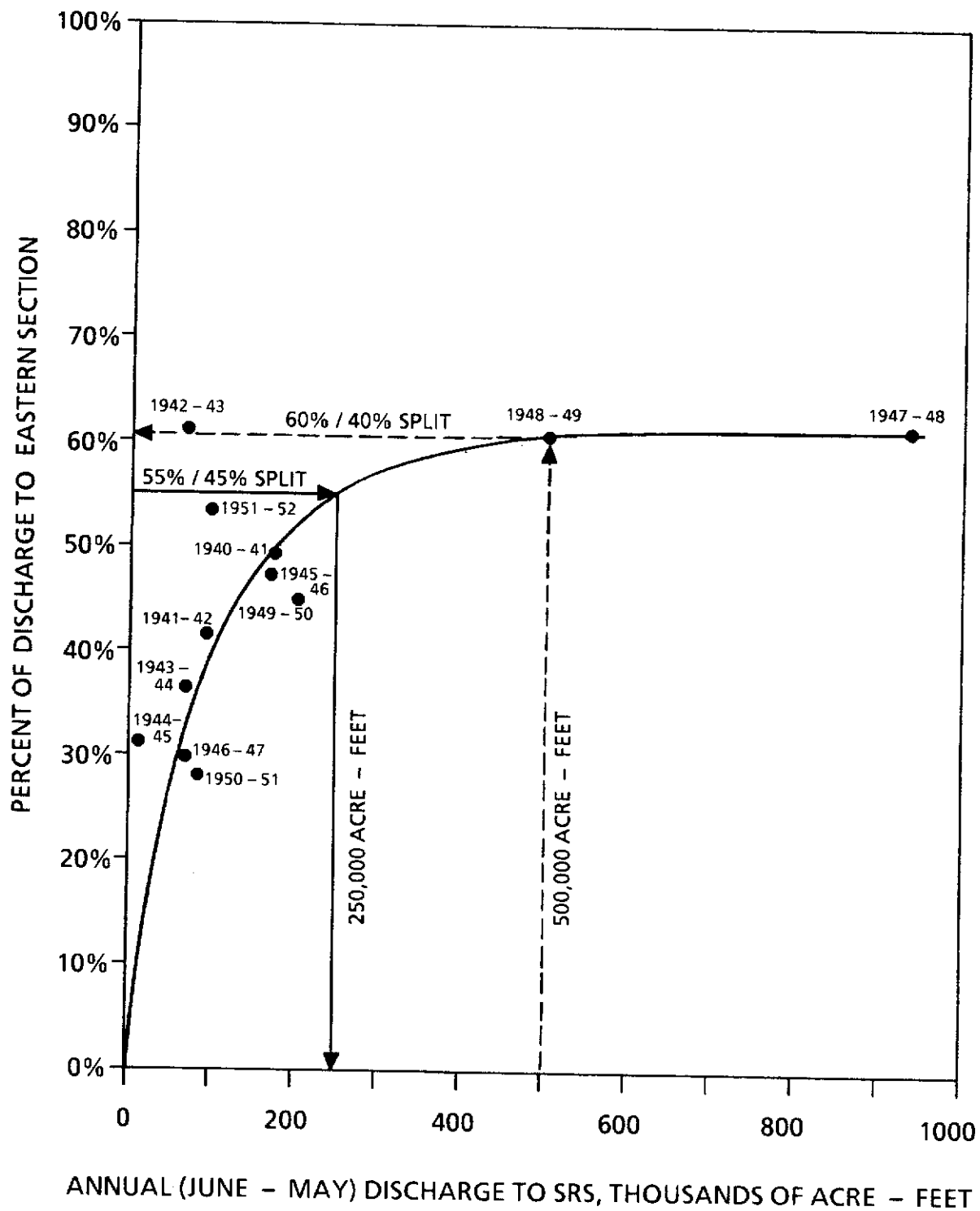


Figure 4. Relationship between Percentage of Discharge to Eastern Flow Section and Total Discharge to Shark River Slough. (data from Leach et al., 1972, Tables 9 and 10, pages 112-113)

III. PREVIOUS FIELD TESTS

The Fascell Bill (PL 98-181), passed by the U. S. Congress in 1983, allowed water managers to temporarily set aside the quota system of water deliveries to ENP in order to test alternative water management plans. The quota system, known as the Minimum Delivery Schedule, had been in effect since 1970. Two water management plans have been tested under the Fascell Bill. The first was the Flow-Through Plan and the second was the Rainfall Plan.

The Flow-Through Plan was implemented in June 1983 and continued for two years through May 1985. The Flow-Through Plan required the gates of S-12 structures A, B, C, and D to be open continuously to provide unregulated discharge to SRS. During the first year of the test of the Flow-Through Plan, S-12D was closed in order to distribute most of the flow to the western part of the western flow section. During the second year of the test, all four S-12 structures were open. There were three shortcomings of the Flow-Through Plan: (1) discharge to SRS was uncontrolled and, therefore, depended on upstream water management practices, (2) the natural dry season recession of the flow hydrograph was inhibited, and (3) no discharge was made to NESRS.

The Rainfall Plan strives to restore a more natural hydrologic condition to SRS by reintroducing flow to NESRS. Before the Rainfall Plan was implemented, the District conducted two field tests to determine the feasibility of restoring flow to NESRS. Results and analysis of these tests were reported in District publications: (1) A 30-Day Field Experiment of Water Deliveries to Northeast SRS (MacVicar and VanLent, 1984) and (2) A 90-Day Field Test of Experimental Water Deliveries to SRS (MacVicar, 1985). The purpose of these tests was to determine if sufficient volumes of water could be discharged to NESRS by the structures and canals involved, and whether these volumes of water would cause flooding to the existing agricultural and residential (Rocky Glades) areas east of NESRS and west of L-31N (Figure 1).

The 30-day test was conducted during the dry season from April 19 to May 18, 1984. A total of 61,000 acre-feet of water was discharged to NESRS during the test. Results of the test showed that large volumes of water could be discharged to NESRS by way of S-333 and the L-29 canal, and that for dry conditions, discharge of water to NESRS posed no threat of flooding to nearby residential and agricultural areas. It remained to be shown, however, that water could be successfully delivered to NESRS during the wet season.

The 90-day test was conducted from August 1 to November 30, 1984. A total of 118,000 acre-feet of water was discharged to NESRS during the test. Results of this test showed that it was feasible to deliver water to NESRS by way of S-333 and the L-29 canal during the wet season and that these deliveries could be made without causing flooding in nearby residential and agricultural areas.

Results of both tests showed that the L-31N canal has the most significant man-caused influence on water levels in the Rocky Glades area and that regulation of the water level in the L-31N canal is effective in controlling groundwater levels in the Rocky Glades area. A conclusion of the second report was that flexible operational criteria are needed to prevent unnecessary removal of groundwater from the area.

The results of these tests were not useful in determining the effects of restoration of flow to NESRS on the hydrology of the rest of SRS. A test of a water management plan such as the Rainfall Plan that includes regulation of flow through the S-12 structures was required for this evaluation.

IV. THE TWO-YEAR TEST AGREEMENT

The two-year test of the Rainfall Plan was conducted only after the District and the Rocky Glades residents and farmers (hereinafter, the "farmers") had negotiated and signed an agreement governing the implementation of the test. The farmers were concerned that restoration of flow to NESRS would increase the flood risk to their property. The agreement for the two-year test of the Rainfall Plan had three major provisions concerning the implementation of the test: (1) regulation of groundwater and surface water levels in the Rocky Glades area by regulation of water levels in the L-31N canal, (2) interruption of flow to NESRS when groundwater levels in the Rocky Glades area exceeded acceptable limits, or reduction of S-333 flow when water levels in the L-29 canal approached a maximum limit, and (3) supplying field data from the test to the farmer's engineering consultant. The agreement also required the District to submit the first draft of this report to the farmer's engineering consultant for review and comment. Any differences in interpretation of the results which were not resolved prior to publication of the final report were to be included as an appendix to the final report (Appendix E).

A. Regulation of Water Levels in the Rocky Glades Area

During the 30- and 90-day tests, it was demonstrated that the L-31N canal had significant influence on water levels in the Rocky Glades area. A conclusion of these reports was that regulation of the canal was the best way to control water levels in the area.

During the two-year test the L-31N canal was used to regulate groundwater levels in the existing residential (Rocky Glades) and agricultural areas. For the reach of the L-31N canal between S-335 and S-331, the water level in Angel's well (Figure 5 and Table 2) was used to "trigger" changes in the operation of the canal.

Three operational rules were specified for the operation of this reach of L-31N:

1. If the water level at Angel's well was less than 5.5 feet⁶, the District had complete flexibility in operating the L-31N canal within the design limits specified by the COE.

2. If the water level at Angel's well was between 5.5 and 6.0 feet, the water level in the L-31N canal upstream of S-331 was to be maintained at or below 5.0 feet.

3. If the water level at Angel's well was greater than 6.0 feet, the water level in the L-31N canal upstream of S-331 was to be maintained at or below 4.5 feet until the water level at Angel's well receded below 5.7 feet.

⁶All water level data in this paper are reported in feet NGVD (National Geodetic Vertical Datum).

Table 2. Data Monitoring Sites and Corresponding Map Locations

STATION	MAP LOCATION	STATION	MAP LOCATION	STATION	MAP LOCATION
S-151	1	G-3272	27	NTS3	53
S-165	2	S-178	28	NTS5	54
S-173	3	S-194	29	NTS7	55
S-174	4	S-196	30	P-33	56
S-175	5	S-12A	31	NP-201	57
S-176	6	S-12B	32	NP-202	58
S-177	7	S-12C	33	NP-206	59
S-179	8	S-12D	34	P-36	60
S-197	9	S-333	35	L-67XM	61
S-331	10	S-18C	36	S-336	62(RF)
S-332	11	G-618	37	S-331	63(RF)
S-334	12	NESS-1	38	S-332	64(RF)
S-335	13	NESS-2	39	S-12D	65(RF)
S-167	14	KROME	40	S-18C	66(RF)
S-148	15	G-1502	41	S-20	67(RF)
3-28	16	G-596	42	S-20F	68(RF)
3B-SE	17	G-3273	43	CHEKIKA	69(RF)
ANGEL'S	18	G-1487	44	HOMEX.S.	70(RF)
RUTZKE'S	19	G-855	45	NP-201	71(RF)
NESS-3	20	G-757A	46	NP-203	72(RF)
NESS-4	21	G-789	47	NP-206	73(RF)
NESS-5	22	S-196A	48(GW)	P-34	74(RF)
HUMBLE'S	23	L-67XE	49	P-35	75(RF)
FROG	24	L-67XW	50	P-36	76(RF)
S.W.200TH	25	L-67XS	51	P-38	77(RF)
MITCHELL'S	26	NTS1	52		

Note: (RF) indicates a rainfall station
(GW) indicates a groundwater recorder

For the reach of the L-31N canal between S-331 and S-176 the water level in the canal was to be maintained at about 4.3 feet. During normal operation the automatic gate at S-176 was to be set to open at an upstream water level in the canal of 4.5 feet and to close at a water level of 4.1 feet. There were two conditions for which the gate operations could be varied: (1) during flood control operations the gate could be manually operated, and (2) during water supply operations the water level in the canal upstream of S-176 could be allowed to rise temporarily above 4.5 feet.

Although the test agreement stated that the District would maintain water levels in the L-31N canal at or below specified limits, it was understood that these limits would be exceeded during some rainfall events (refer to the discussion of the L-31N Canal Operation in Section VI.D.3).

B. Interruption of Flow to NESRS

In the event that the water level near the Rocky Glades area (as measured at the United States Geologic Survey (USGS) well G-3273) rose above a specified level, discharge through S-333 was to be stopped. If the water level in the L-29 canal rose above a specified level, the discharge through S-333 was to be limited. In either case, operation of the structure according to the Rainfall Plan could be resumed when the water level receded. Three rules were specified governing the operation of S-333:

1. If the water level at G-3273 exceeded 6.8 feet for more than 24 hours, S-333 was to be closed until the water level receded below 6.8 feet.
2. If the water level at G-3273 exceeded 6.5 feet for more than 48 hours and the rate of rise over the previous 24 hours would have, if sustained, caused the water level to exceed 6.8 feet within the next 24 hours, S-333 could be closed at the request of the farmer's engineering consultant. The structure was to be reopened when the water level at G-3273 had stopped rising if the water level was still below 6.8 feet.
3. The water level in the L-29 canal was not allowed to rise above 7.50 feet while S-333 was discharging. This restriction was in accordance with COE operational criteria for the canal and was imposed to protect the residents and businesses near the canal from flooding.

C. Field Data

Under the terms of the test agreement the District was required to obtain water level measurements and rainfall amounts from the recording stations shown in Figure 5 and identified in Table 2. The District was required to provide the farmer's engineering consultant with all of the data obtained from these stations for the duration of the test. These data are presented in Appendix D.

V. RESULTS

The two-year test of the Rainfall Plan was completed July 10, 1985. The participating agencies proposed that the Rainfall Plan remain in effect pending the analysis of the test results and the outcome of the COE's General Design Memorandum (GDM) for the East Everglades. As the farmers did not object to this proposal, water deliveries as determined by the Rainfall Plan have continued since the beginning of the test on July 11, 1985. Because of the continuation of the test, the period of data collection for some of the areas has been longer than originally anticipated. Although called the two-year test in this report, the test period is longer than two years and in fact, continues.

This report considered data for the period of the test through the end of the 1987 wet season (i.e., the end of October). This period of record included two complete wet seasons (June through October), two complete dry seasons (November through May), and most of the 1985 wet season.

Data collection for the two-year test was extensive. Figure 5 and Table 2 identify the recording stations for which water levels⁷ or rainfall amounts were recorded for the period of the test. Daily records from these stations were tabulated and have been reported in their entirety in Appendix D.

Data from the two-year test are presented in three main sections: (1) **Rainfall Conditions During the Test**, (2) **Discharge to Shark River Slough**, (3) **Water Levels in the Trigger Wells and the L-31N Canal**.

A. Rainfall Conditions During the Test

The rainfall conditions in three areas were considered important in understanding the results of the test. These areas are WCA 3A, NESRS, and the Everglades Agricultural Area (EAA). The rainfall occurring in WCA 3A determined in part the amount of flow to SRS. The rainfall occurring in the NESRS area had a significant effect on local surface and ground water levels and was important to understanding the effectiveness of trigger wells in the area. Because of current water management policy in the EAA, the rainfall occurring in the EAA affected the water level in WCA 3A which in turn determined the regulatory component of discharge to SRS.

The actual and normal (i.e., historical average) rainfall amounts for the NESRS area, WCA 3A, and the EAA are presented in Table 3. The actual rainfall for the NESRS area during the test was determined by a Theissen-weighted average of six rainfall stations (S-331, S-336, S-12D, Chekika, and ENP stations NP-201 and

⁷Note that in this report, the term "water level" is used to refer to both groundwater and surface water levels. Many areas in and around SRS are inundated for variable periods each year. The water level gages in these areas record water levels continuously as a transition is made from groundwater to surface water or vice-versa. The hydrograph for any one gage may report both groundwater and surface water levels.

NP-203). The normal rainfall was determined by a Theissen-weighted average for the years 1966-87 of three long-term stations (40-Mile Bend, Trail Glades Range, and Homestead Experiment Station). The actual rainfall for WCA 3A was computed as an arithmetic average of the rainfall reported at the same ten WCA 3A stations that were used by the statistical formula to compute the target rain-driven component of flow to SRS. The normal WCA 3A rainfall shown in Table 3 is the historical average (1941-1952) that was used to determine the regression coefficients of the statistical formula. The actual rainfall for the EAA was computed as an arithmetic average of nine stations, while the normal rainfall for the area was computed as the 56-year average of the same stations.

WCA 3A received greater than normal rainfall during the dry seasons of 1986 and 1987, and had less than normal rainfall during the wet seasons of 1985, 1986 and 1987. The NESRS area received near-normal seasonal rainfall except for the wet season of 1986 which was below normal. The EAA received near-normal seasonal rainfall except for the 1987 wet season which was below normal.

Rainfall conditions during the test varied both spatially and temporally. An example of the spatial variability is given by the 1987 wet season. The EAA and WCA 3A received about 10 inches less than normal rainfall, while the NESRS area received about 2 inches more than normal. An example of the temporal variability is given by the NESRS area during the 1986 dry season. The NESRS area received near-normal rainfall for the season, but there was much variability in the monthly rainfall. December 1985 was the only month that received near-normal rainfall. January and March received higher than normal rainfall, while the remaining months of the 1986 dry season received less than normal rainfall. In general, monthly variability in rainfall is higher than seasonal variability.

Tropical Storm Bob (July 22-24, 1985) was the only major storm event that occurred during the test. The NESRS area and WCA 3A received about four and five inches, respectively, from the 3-day storm. The EAA received only about two inches. Bob brought the July, 1985 rainfall from below normal to above normal for the NESRS area and WCA 3A.

B. Discharge to Shark River Slough

The Rainfall Plan was used to calculate the target (i.e., the desired) amount and distribution of surface water discharge to Shark River Slough (SRS). This section considers how closely the amount and distribution of the actual surface water discharge to SRS matched the target flow for the period of the test. Since the target discharge to SRS consists of a rain-driven component and a regulatory component and is made to two parts of SRS (to NESRS via the eastern flow section and to ENP via the western flow section), the *target SRS discharge* has eight components:

1. *target SRS rain-driven discharge* - determined by the rainfall formula.
2. *target SRS regulatory discharge* - determined by the WCA 3A regulation schedule.
3. *target NESRS discharge* - 55 percent of the target SRS discharge.
4. *target NESRS rain-driven discharge* - 55 percent of the target SRS rain-driven discharge.
5. *target NESRS regulatory discharge* - 55 percent of the target SRS regulatory discharge.
6. *target ENP discharge* - 45 percent of the target SRS discharge.

Table 3. Rainfall Conditions in NESRS, WCA 3A, and the EAA

Month	NESRS AREA*				WCA 3A				EAA			
	Actual	Normal	DIFF	%Norm	Actual	Normal	DIFF	%Norm	Actual	Normal	DIFF	%Norm
JUN85	7.47	9.54	-2.1	78	4.50	7.51	-3.0	60	7.09	8.67	-1.6	82
JUL85	9.68	6.27	3.4	154	12.26	8.85	3.4	139	9.60	7.37	2.2	130
AUG85	6.17	8.03	-1.9	77	8.21	7.83	0.4	105	6.19	7.24	-1.0	85
SEP85	7.33	7.89	-0.6	93	8.93	8.49	0.4	105	9.09	7.70	1.4	118
OCT85	3.47	4.36	-0.9	80	2.38	7.38	-5.0	32	5.48	4.26	1.2	129
WET85	34.12	36.10	-2.0	95	36.28	40.07	-5.4	90	37.45	35.24	2.2	106
NOV85	1.60	2.65	-1.1	60	3.16	2.73	0.4	116	1.79	1.85	-0.1	97
DEC85	1.45	1.50	-0.1	97	1.07	1.16	-0.1	92	2.15	1.77	0.4	121
JAN86	2.56	1.70	0.9	151	2.82	1.27	1.6	222	2.70	1.73	1.0	156
FEB86	1.06	2.18	-1.1	49	0.86	1.41	-0.6	61	1.33	1.87	-0.5	71
MAR86	8.49	2.21	6.3	385	4.92	1.76	3.2	279	5.02	2.81	2.2	179
APR86	0.95	2.25	-1.3	42	2.58	2.67	-0.1	97	0.28	2.67	-2.4	10
MAY86	2.95	6.06	-3.1	49	2.48	4.85	-2.4	51	3.79	4.98	-1.2	76
DRY86	19.06	18.55	0.5	103	17.88	15.85	2.0	113	17.06	17.68	-0.6	96
JUN86	10.85	9.54	1.3	114	10.16	7.51	2.6	135	12.22	8.67	3.6	141
JUL86	6.76	6.27	0.5	108	5.99	8.85	-2.9	68	6.49	7.37	-0.9	88
AUG86	7.67	8.03	-0.4	95	7.31	7.83	-0.5	93	7.44	7.24	0.2	103
SEP86	3.45	7.89	-4.4	44	2.81	8.49	-5.7	33	3.91	7.70	-3.8	51
OCT86	2.48	4.36	-1.9	57	2.44	7.38	-4.9	33	4.46	4.26	0.2	105
WET86	31.21	36.10	-4.9	86	28.70	40.07	-11.4	72	34.52	35.24	-0.7	98
NOV86	2.16	2.65	-0.5	81	2.32	2.73	-0.4	85	1.75	1.85	-0.1	95
DEC86	3.10	1.50	1.6	206	1.28	1.16	0.1	110	4.50	1.77	2.7	254
JAN87	0.73	1.70	-1.0	43	4.29	1.27	3.0	338	1.77	1.73	0.0	102
FEB87	0.89	2.18	-1.13	41	1.18	1.41	-0.2	84	1.32	1.87	-0.6	71
MAR87	6.55	2.21	4.3	297	4.18	1.76	2.4	237	5.66	2.81	2.9	201
APR87	0.10	2.25	-2.2	4	2.55	2.67	-0.1	96	0.21	2.67	-2.5	8
MAY87	3.33	6.06	-2.7	55	3.12	4.85	-1.7	64	2.58	4.98	-2.4	52
DRY87	16.86	18.55	-1.7	91	18.92	15.85	3.1	119	17.79	17.68	0.1	101
JUN87	7.26	9.54	-2.3	76	1.48	7.51	-6.0	20	5.05	8.67	-3.6	58
JUL87	5.36	6.27	-0.9	85	5.41	8.85	-3.4	61	6.15	7.37	-1.2	83
AUG87	9.48	8.03	1.4	118	5.52	7.83	-2.3	71	4.61	7.24	-2.6	64
SEP87	11.63	7.89	3.7	147	8.00	8.49	-0.5	94	5.88	7.70	-1.8	76
OCT87	4.76	4.36	0.4	109	10.09	7.38	2.7	137	3.02	4.26	-1.2	71
WET87	38.49	36.10	2.4	107	30.50	40.07	-9.6	76	24.71	35.24	-10.5	70

*114 sq. mile area bounded by L-67 Extension, L-29, L-31N to S-331, and a line from S-351 due west to the ENP boundary.

7. *target ENP rain-driven discharge* - 45 percent of the target SRS rain-driven discharge.
8. *target ENP regulatory discharge* - 45 percent of the target SRS regulatory discharge.

The extent to which these targets were achieved is presented under four sub-headings: (1) **Target SRS Discharge**, (2) **Actual SRS Discharge**, (3) **Discharge to NESRS**, and (4) **Discharge to ENP**.

1. **Target SRS Discharge** - The target discharge to SRS from WCA 3A was the sum of the rain-driven and the regulatory components of the Rainfall Plan. During the test, these components were computed weekly. A hydrograph showing the rain-driven and regulatory components of the target SRS discharge is presented in Figure 6(A). Monthly and seasonal summaries of the rain-driven and regulatory components of the target SRS discharge are presented in Table 4.

The rain-driven component showed considerable variability during the test as it was directly related to the variable weather conditions in WCA 3A. In Figure 6(B) the rain-driven component of discharge is compared to the discharge called for by the Minimum Delivery Schedule. Note that the amount and timing of discharge to the slough under the Minimum Delivery Schedule is the same from year to year. The Rainfall Plan provides variability in amount and timing of discharge not possible under the Minimum Delivery Schedule.

The contribution of the regulatory component to the target SRS discharge varied considerably from season to season and year to year. During the dry seasons, the regulatory component made minor contributions to the target SRS discharge (about 18 percent in 1986 and 5 percent in 1987). During the wet seasons, the regulatory component made major contributions during 1985 (52 percent) and 1986 (70 percent), but no contribution at all in 1987.

2. **Actual SRS Discharge** - The actual discharge from WCA 3A to SRS differed in some cases from the target discharge. In all cases where significant differences occurred, the actual discharge to SRS was smaller than the target discharge. The differences occurred because of conditions of the test agreement that limited or curtailed the operation of S-333.

The target and actual discharges from WCA 3A to SRS for the period of the test are shown in Figure 7. The target flow is the sum of the rain-driven and regulatory components, and the actual discharge is the sum of discharge from the S-12 structures and S-333⁸. The target and actual discharges are summarized monthly and seasonally in Table 4.

⁸The discharges for S-333 shown in Figure 7 and summarized in Table 4 have been adjusted to reflect operation of S-333 as part of the South Dade Conveyance System (SDCS). As S-333 was designed and built to be part of the SDCS, water deliveries to NESRS are a secondary purpose of the structure. All water discharged through S-333 that is intended for delivery to south Dade County is subsequently discharged through S-334. By subtracting any discharges through S-334 from the discharge through S-333, the amount of surface water delivered to NESRS can be estimated. This occurred during 19 weeks of the test. Note that the estimated amount of water delivered to NESRS does not account for the seepage that may occur through L-29 into or out of WCA 3B.

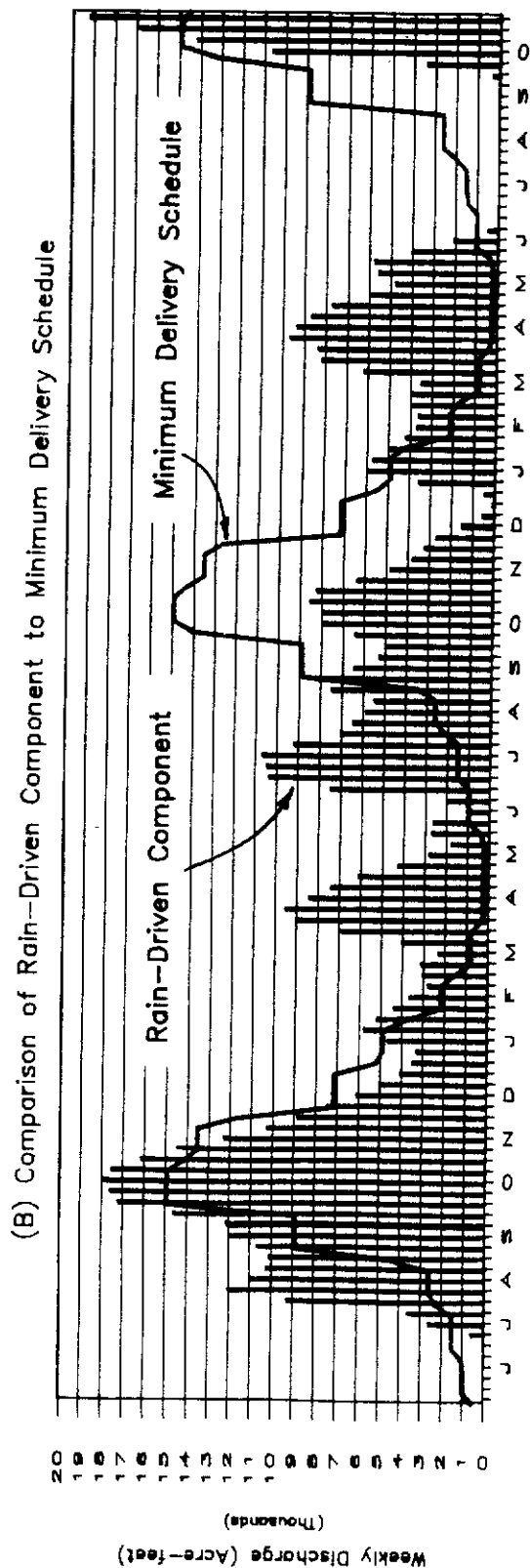
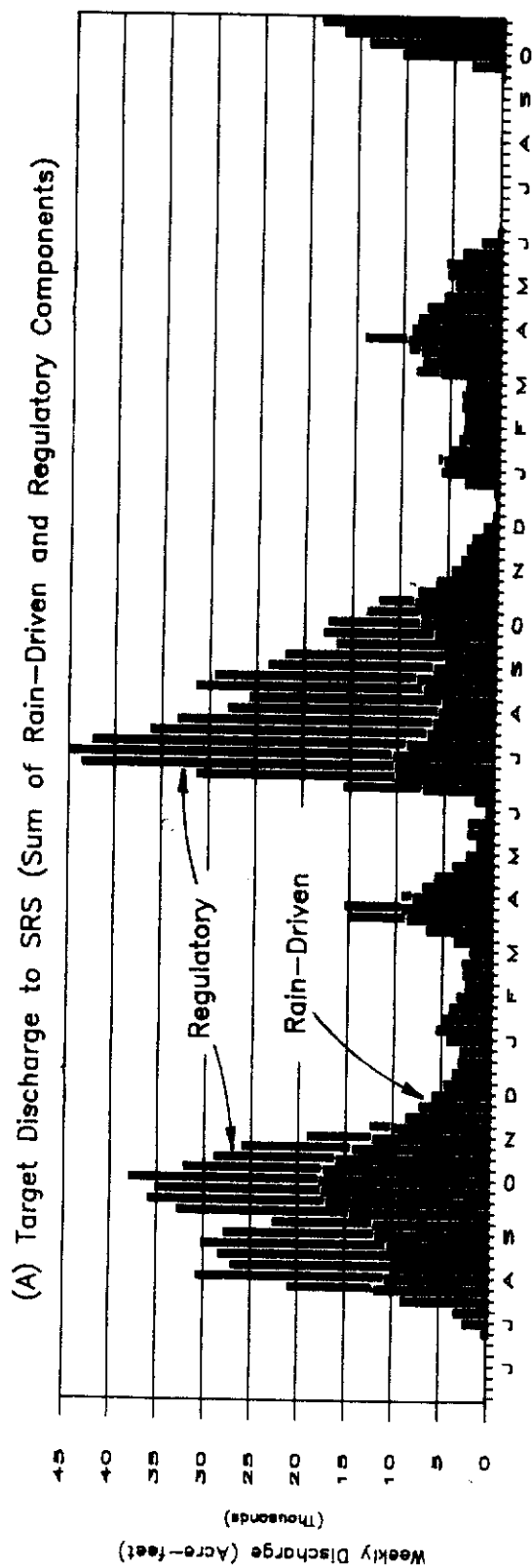


Figure 6. Comparison of Rainfall Plan Component Discharges and Minimum Delivery Schedule Discharge

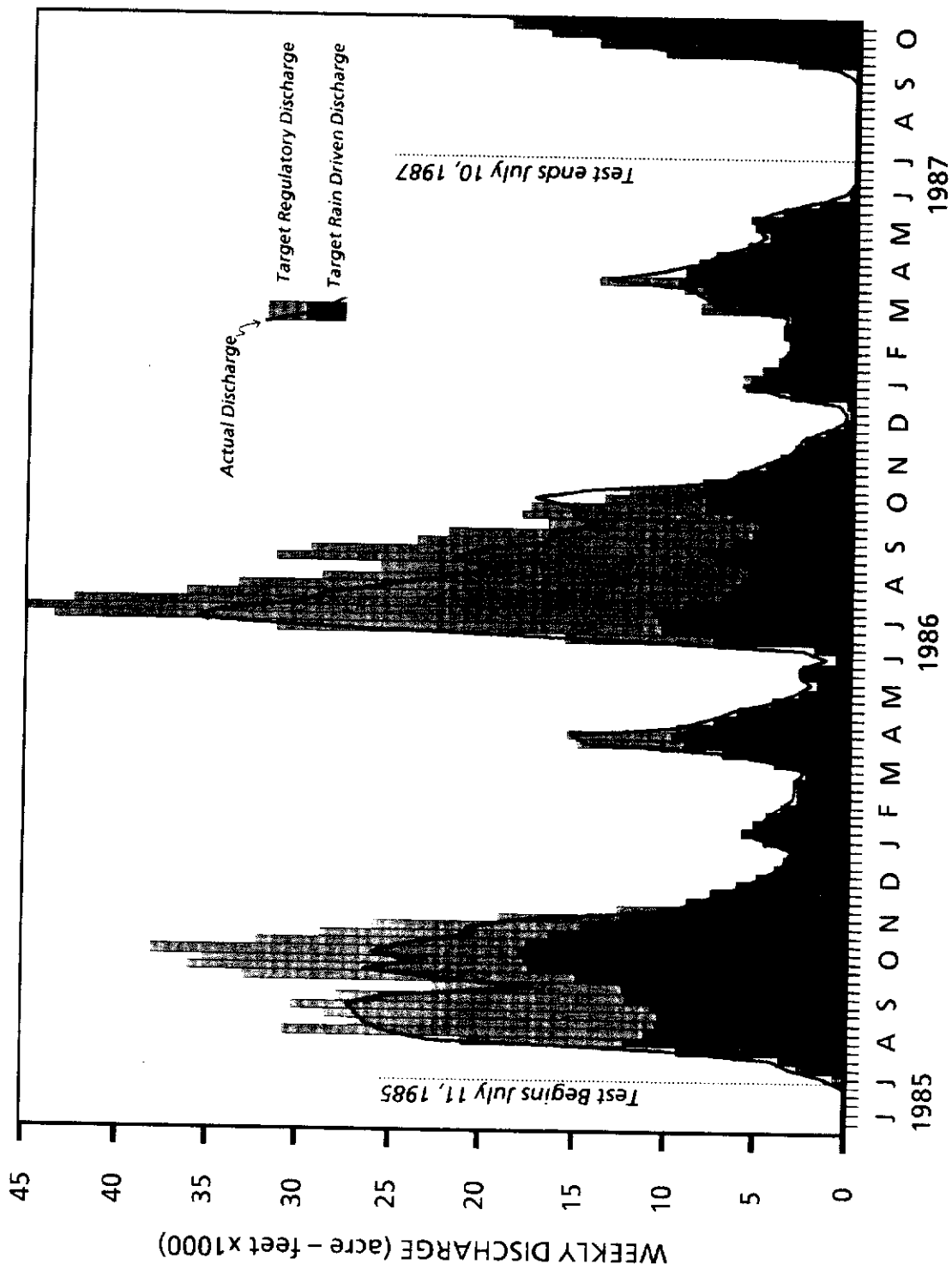


Figure 7. Comparison of Target and Actual Discharge to Shark River Slough

**Table 4. Target and Actual Discharge from WCA 3A to SRS
(thousand acre-ft)**

<u>Month</u>	<u>TARGET COMPONENTS</u>			<u>Actual Total</u>	<u>FLOW TO NESRS via S-333</u>		<u>FLOW TO ENP via S-12</u>		<u>ACTUAL (AS A % OF TARGET TOTAL)</u>		
	<u>Rain Driven</u>	<u>Regu- latory</u>	<u>Target Total</u>		<u>Target</u>	<u>Actual</u>	<u>Target</u>	<u>Actual</u>	<u>S-333</u>	<u>S-12</u>	<u>Total</u>
JUN85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
JUL85	9.6	0.0	9.6	10.3	5.3	4.7	4.3	5.6	49	58	107
AUG85	47.2	58.8	106.0	100.2	58.3	48.2	47.7	52.0	45	49	94
SEP85	52.4	69.5	122.0	98.8	67.0	32.0	54.9	66.7	26	55	81
OCT85	77.3	76.6	153.9	117.4	84.6	45.5	69.2	71.9	29	47	76
WET85	186.6	204.9	391.4	326.7	215.2	130.4	176.2	196.3	33	50	83
NOV85	52.7	27.7	80.4	70.1	44.2	35.0	36.2	35.1	43	44	87
DEC85	25.7	0.0	25.7	24.3	14.1	13.9	11.6	10.4	54	40	94
JAN86	19.8	0.0	19.8	18.7	10.9	10.5	8.9	8.2	53	41	94
FEB86	14.9	0.0	14.9	14.1	8.2	8.2	6.7	5.9	55	40	95
MAR86	17.8	0.0	17.8	16.2	9.8	8.9	8.0	7.3	50	41	91
APR86	36.2	13.0	49.2	47.5	27.1	26.7	22.2	20.9	54	42	97
MAY86	15.2	0.0	15.2	14.5	8.4	8.0	6.8	6.5	52	43	95
DRY86	182.3	40.7	223.0	205.4	122.7	111.1	100.4	94.3	50	42	92
JUN86	13.8	8.2	22.0	19.7	12.1	12.3	9.9	7.4	56	34	90
JUL86	43.8	134.7	178.5	137.7	98.2	45.1	80.3	92.6	25	52	77
AUG86	28.4	106.9	135.2	101.4	74.4	33.8	60.9	67.6	25	50	75
SEP86	27.0	72.1	99.2	72.2	54.5	30.8	44.6	41.5	31	42	73
OCT86	34.8	28.5	63.3	63.7	34.8	31.0	28.5	32.7	49	52	101
WET86	147.8	350.4	498.2	394.7	274.0	153.0	224.2	241.7	31	48	79
NOV86	21.4	0.0	21.4	19.5	11.8	11.2	9.6	8.3	52	39	91
DEC86	5.6	0.0	5.6	4.4	3.1	2.2	2.5	2.1	40	38	78
JAN87	19.3	0.3	19.7	16.6	10.8	7.9	8.8	8.7	40	44	84
FEB87	15.8	0.0	15.8	13.1	8.7	6.5	7.1	6.6	41	42	83
MAR87	24.3	2.5	26.7	24.5	14.7	13.7	12.0	10.8	51	40	92
APR87	38.3	5.3	43.5	42.8	24.0	24.7	19.6	18.1	57	42	98
MAY87	25.8	0.0	25.8	23.9	14.2	13.6	11.6	10.3	53	40	93
DRY87	150.5	8.1	158.5	144.6	87.2	79.7	71.3	64.9	50	41	91
JUN87	7.5	0.0	7.5	6.9	4.1	4.1	3.4	2.8	55	37	92
JUL87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AUG87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
SEP87	1.3	0.0	1.3	1.4	0.7	0.7	0.6	0.6	56	45	101
OCT87	58.1	0.0	58.1	54.5	31.9	29.4	26.1	25.1	51	43	94
WET87	66.9	0.0	66.9	62.8	36.8	34.3	30.1	28.5	51	43	94
TOTAL	734.0	604.1	1338.1	1134.3	735.9	508.5	602.2	625.7	38	47	85

NOTES:

*actual discharge prior to start of test are not shown (June 1985)

*S 333 actual discharge is adjusted for the S-334 discharge that was made in June and August 1985; December 1986; and January through May 1987

During the wet seasons of 1985 and 1986, about 80 percent of the target SRS flow was discharged from WCA 3A; during the dry seasons of 1986 and 1987, about 90 percent of the target flow was discharged; and during the 1987 wet season, about 95 percent of the target flow was discharged. Over the period of the test, 85 percent of the target SRS flow was met.

3. Discharge to NESRS - Target discharge to NESRS (eastern flow section) was specified in the Rainfall Plan to be 55 percent of the target SRS discharge and was made by way of S-333. The target and actual NESRS discharge through S-333 are shown in Figure 8 and Table 4. For the period of the test only 38 percent of the target SRS flow passed through S-333. During the dry seasons of 1986 and 1987 and the wet season of 1987, the actual discharge was about 50 percent of the target SRS flow (five percent below the target NESRS flow). During the wet seasons of 1985 and 1986, however, the S-333 discharge was only about 30 percent of the target SRS flow.

On most of the occasions when actual discharge differed from the target, the S-333 discharge was limited to prevent the water level in the L-29 canal from exceeding 7.50 feet (refer to Figure 14). More flow could have been passed through S-333; the structure's capacity was not the limiting factor. On three occasions S-333 was closed because of the terms of the test agreement (triggered by the water level in the well G-3273; Figure 13): (1) for twelve days from September 19 to September 30, 1985 (the G-3273 water level exceeded 6.8 feet from September 19-26), (2) for one day from October 7 to October 8, 1985 (the G-3273 water level rapidly approached 6.8 feet from October 4-7), and (3) for one day from August 19 to August 20, 1986 (G-3273 water level exceeded 6.8 feet from August 18-19). S-333 was closed on two occasions when hurricanes threatened: (1) for two days prior to Hurricane Kate from November 18 to November 20, 1985, and (2) for one day prior to Hurricane Floyd from October 12 to October 13, 1987. Rainfall from Floyd raised the water level at G-3273 above 6.8 feet while S-333 was closed. The structure was not reopened until the water level receded below the trigger level. S-333 was closed for 92 days from June 24 until September 22, 1987, because the Rainfall Plan called for no discharge during this time. S-333 was also closed for five days from December 24 to December 30, 1986, because of the very small discharge (five cfs) called for by the Rainfall Plan. As it was not possible to obtain such a small discharge through the structure, a larger release was made for two days that week resulting in an average discharge for the week of six cfs.

Although S-333 discharge was sometimes limited during the test, a large amount of water (508,500 acre-feet) was released to NESRS. The volume of this surface water flow was comparable to the volume due to direct rainfall (Table 5). The discharge made to NESRS exceeded the contribution due to rainfall for about half the months during the test. On a seasonal basis, the discharge to NESRS was always less than the contribution due to rainfall, but was usually close to the rainfall values. The wet season of 1987 was the only time the volume of rainfall greatly exceeded the volume of surface water inflow.

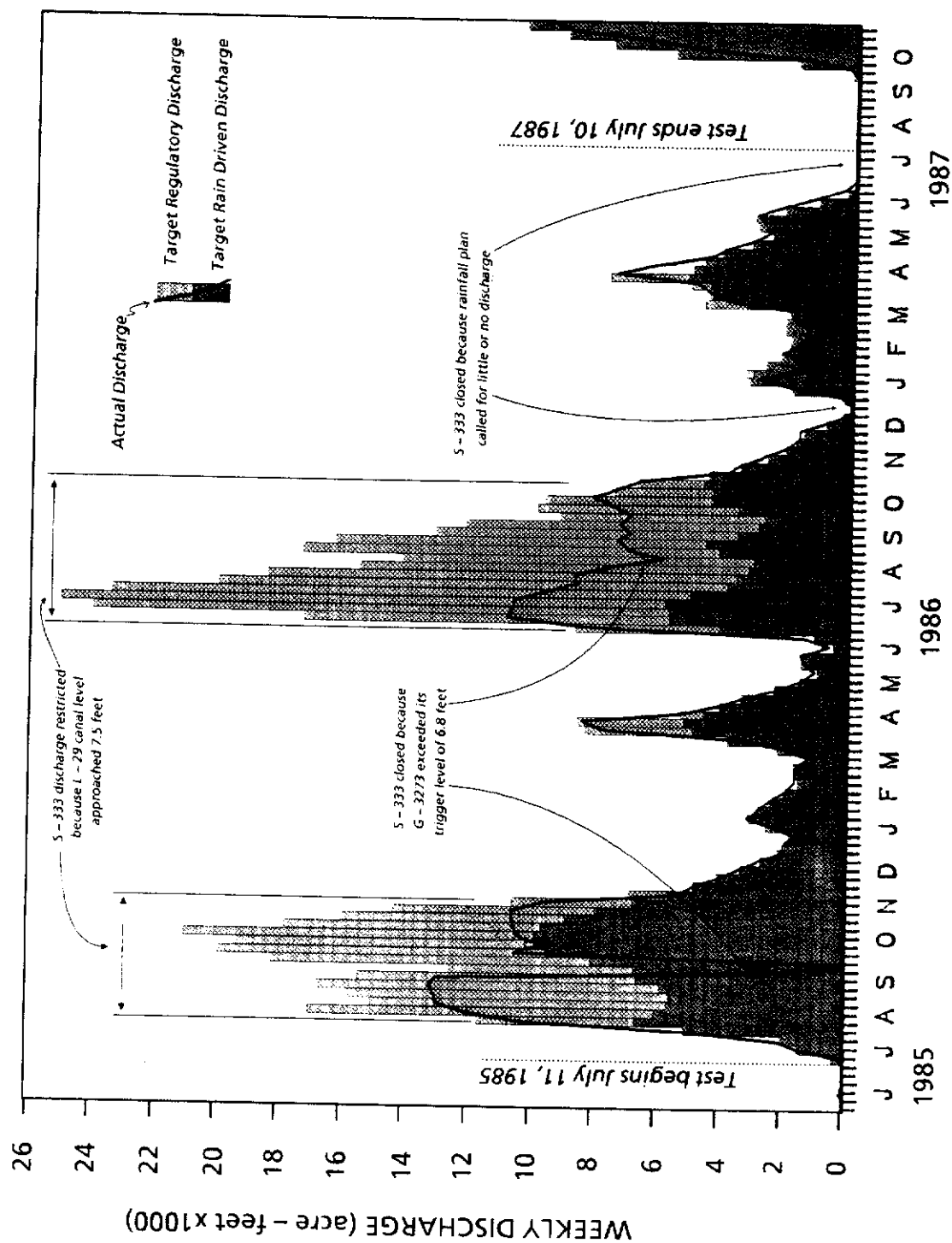


Figure 8. Comparison of Target and Actual Discharge to NESRS through S-333

Table 5. Comparison of Surface Water Flow and
Rainfall Volumes to NESRS* (thousand
acre ft)

<u>Month</u>	<u>NESRS Flow</u>	<u>NESRS Rainfall</u>	<u>Rain Flow</u>	<u>Rain + Flow</u>
JUN85	0.0	45.4	45.4	45.4
JUL85	4.7	58.8	54.1	63.5
AUG85	48.2	37.5	-10.7	85.7
SEP85	32.0	44.5	12.5	76.5
OCT85	45.5	21.1	24.4	66.5
WET85	130.4	207.2	76.8	337.6
NOV85	35.0	9.7	25.3	44.7
DEC85	13.9	8.8	5.1	22.7
JAN86	10.5	15.5	5.1	26.0
FEB86	8.2	6.4	-1.7	14.6
MAR86	8.9	51.6	42.7	60.4
APR86	26.7	5.8	-20.9	32.4
MAY86	8.0	17.9	9.9	25.9
DRY86	111.1	115.7	4.6	226.9
HYDRO YR	241.5	322.9	81.4	564.5
JUN86	12.3	65.9	53.6	78.2
JUL86	45.1	41.0	-4.0	86.1
AUG86	33.8	46.5	12.8	80.3
SEP86	30.8	20.9	-9.8	51.7
OCT86	31.0	15.1	-16.0	46.1
WET86	153.0	189.5	36.5	342.5
NOV86	11.2	13.1	1.9	24.3
DEC86	2.2	18.8	16.6	21.1
JAN87	7.9	4.4	-3.4	12.3
FEB87	6.5	5.4	-1.1	11.9
MAR87	13.7	39.8	26.1	53.4
APR87	24.7	0.6	-24.1	25.3
MAY87	13.6	20.2	6.6	33.8
DRY87	79.7	102.4	22.7	182.1
HYDRO YR	232.7	291.9	59.2	524.6
JUN87	4.1	44.1	39.9	48.2
JUL87	0.0	32.5	32.5	32.5
AUG87	0.0	57.6	57.6	57.6
SEP87	0.7	70.6	69.9	71.4
OCT87	29.4	28.9	-0.5	58.3
WET87	34.3	233.7	199.4	268.0
TOTAL	508.5	848.5	340.0	1357.1

*114 Square mile area bounded by L-67 Ext, L-29,
L-31N to S-331, and a line from S-331 due west to the
ENP boundary.

4. Discharge to ENP - Target discharge to ENP (western flow section) was specified in the Rainfall Plan to be 45 percent of the target SRS flow and was made by way of the S-12 structures. The target and actual ENP discharge through the S-12 structures is shown in Figure 9 and Table 4. For the period of the test, 47 percent of the target SRS flow passed through the S-12 structures (2 percent above target). On a seasonal basis, the difference between actual and target ENP discharge was insignificant. During the dry seasons of 1986 and 1987 and the wet season of 1987, actual flow was slightly below target (four percent or less). During the wet seasons of 1985 and 1986, the actual flow slightly exceeded the target (five percent or less). During the seasons when the discharge through the S-12 structures exceeded 45 percent of the target SRS flow, the combined discharge through the S-12 structures and S-333 was always less than the SRS target.

For short periods of time during the test some significant differences occurred between actual and target ENP discharge. Most of these differences were due to the additional flow made through the S-12 structures when the S-333 flow was restricted by the terms of the test agreement. According to the WCA 3A Regulation Schedule (Figure 3 and Table 1), 45 percent of the target SRS discharge was to be made through the S-12 structures when S-333 was open. When S-333 was closed, ENP had the option to take up to 100 percent of the target flow through the S-12s as long as the average water level in WCA 3A was above Zone E. However, if the average water level in WCA 3A was in Zone B, ENP was required to take at least 73 percent of the target SRS flow.

During the 12 days in September 1985 when S-333 was closed, the average WCA 3A water level was in Zone B (Figure 10) and ENP was required to take at least 73 percent of the target SRS flow. The actual discharge through the S-12 structures during these 12 days was increased to 70 percent of the SRS target (3 percent less than the required minimum). Of the 13 weeks of the 1985 wet season when the S-333 discharge was restricted to prevent the water level in the L-29 canal from exceeding 7.5 feet, the WCA 3A water level was in Zone B for about four weeks. The actual discharge through the S-12 structures during these four weeks was 56 percent of the SRS target. ENP could have further increased the discharge through the S-12s, but was not required to do so since S-333 was not closed. It is interesting to note, however, that the combined discharge through S-333 and the S-12 structures was 76 percent of the SRS target during these four weeks. The WCA 3A water level was also in Zone B for about 12 weeks during the 16 weeks of the 1986 wet season when the S-333 discharge was restricted by the 7.5 ft limit in the L-29 canal. The actual S-12 discharge during these 12 weeks was 49 percent of the SRS target. Again, ENP could have further increased the S-12s discharge, but was not required to do so since S-333 was not closed. The combined discharge through S-333 and the S-12 structures was 76 percent of the SRS target during these 12 weeks.

When WCA 3A was in Zone B and S-333 discharge was restricted or stopped, the discharge through the S-12 structures could have been increased to provide 100 percent of the target SRS flow. Simulated results of this hypothetical operation are discussed in Section VI.B.2.

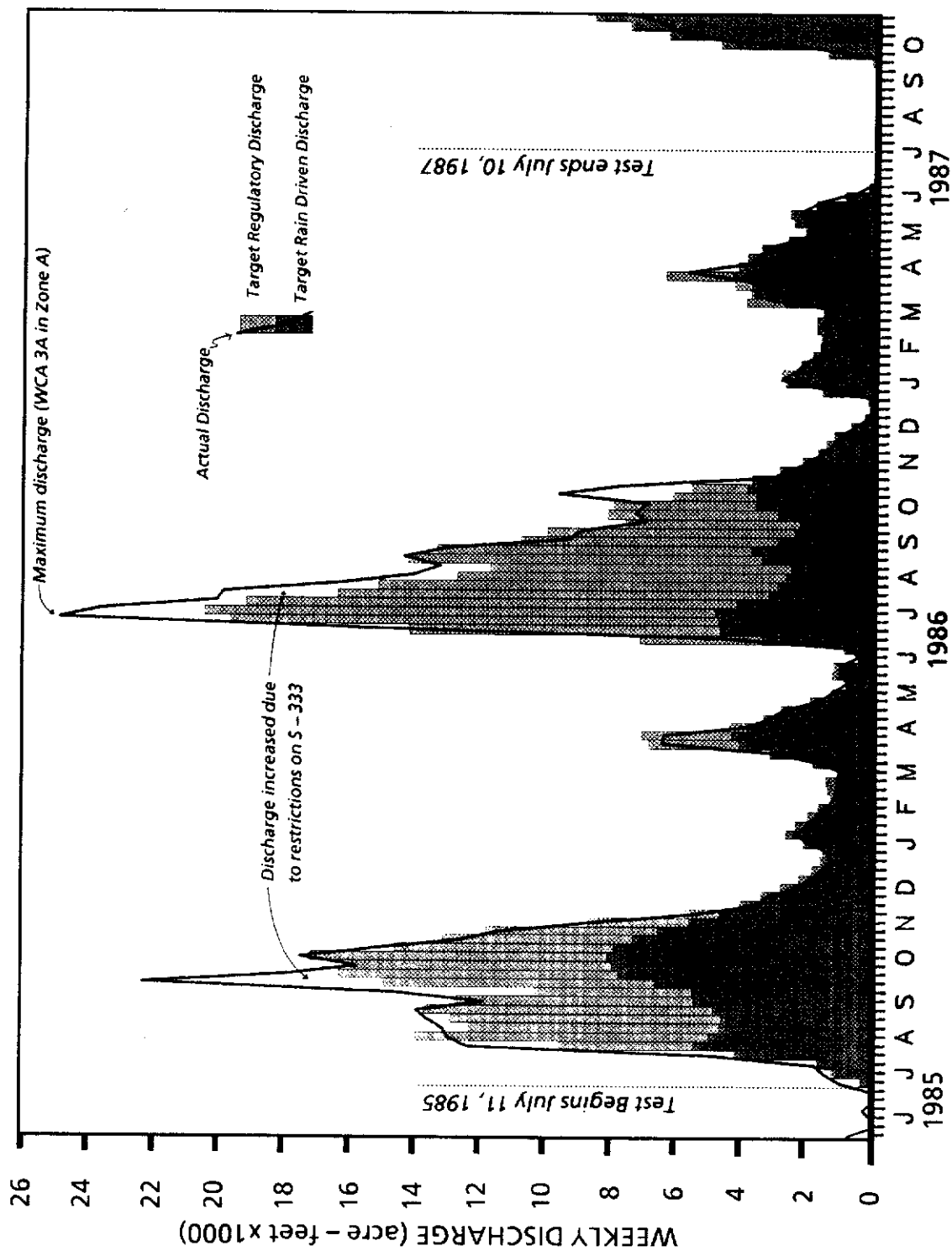


Figure 9. Comparison of Target and Actual Discharge to ENP through the S-12 Structures (A, B, C, and D)

JUNE 1985 - OCTOBER 1987

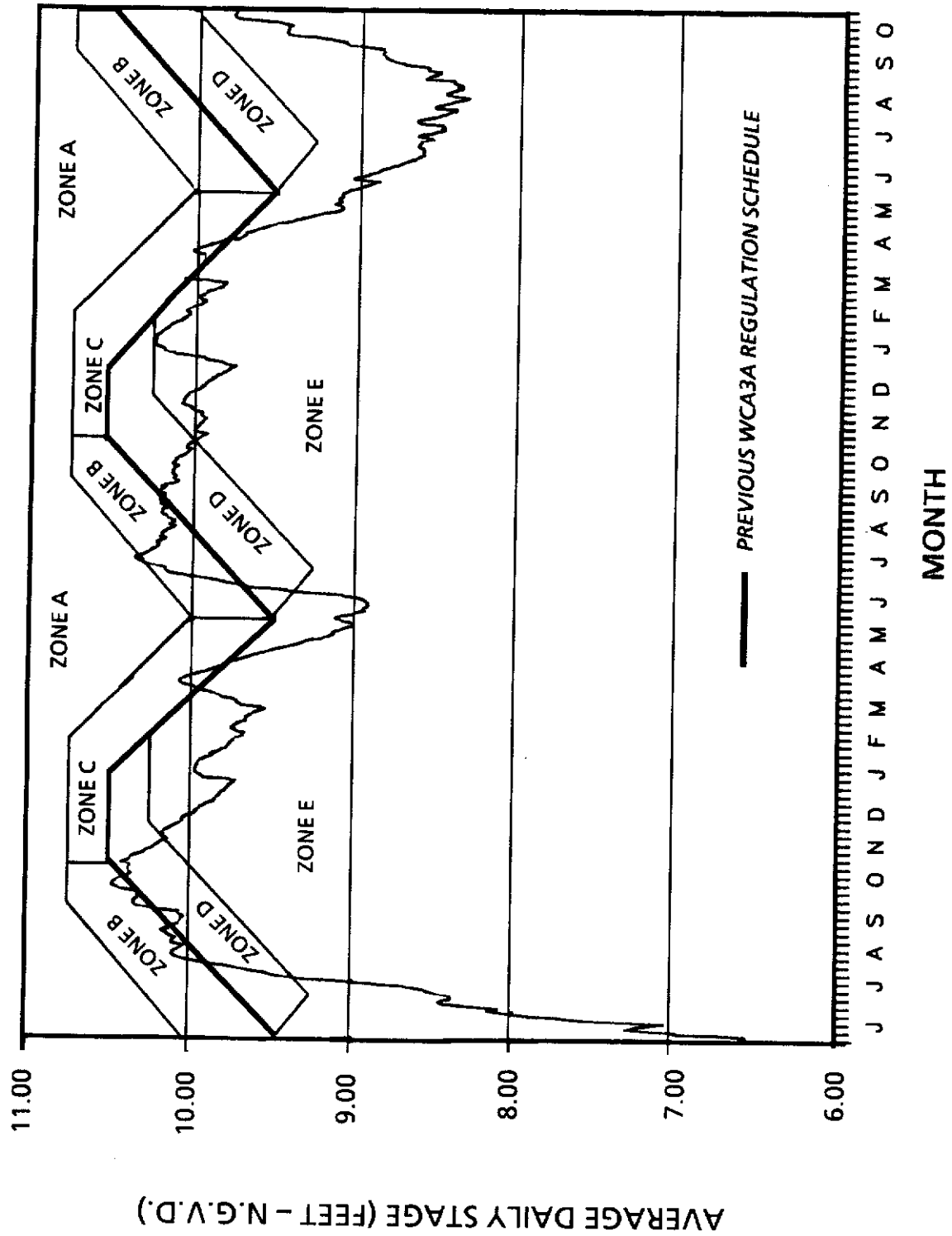


Figure 10. Comparison of WCA 3A Water Level to its Regulation Schedule

For one week from July 9 through July 16, 1986, the water level in WCA 3A entered Zone A of the regulation schedule. The S-12 structures were opened full to achieve maximum discharge (1800 cfs average rate for the week, or 25,000 acre feet).

Incorrect gate openings occurred on two occasions. In June 1986 incorrect gate openings for the S-12 structures resulted in actual discharge less than target, and in October 1986 incorrect gate openings resulted in discharge greater than target.

C. Water Levels in the Trigger Wells and the L-31N Canal

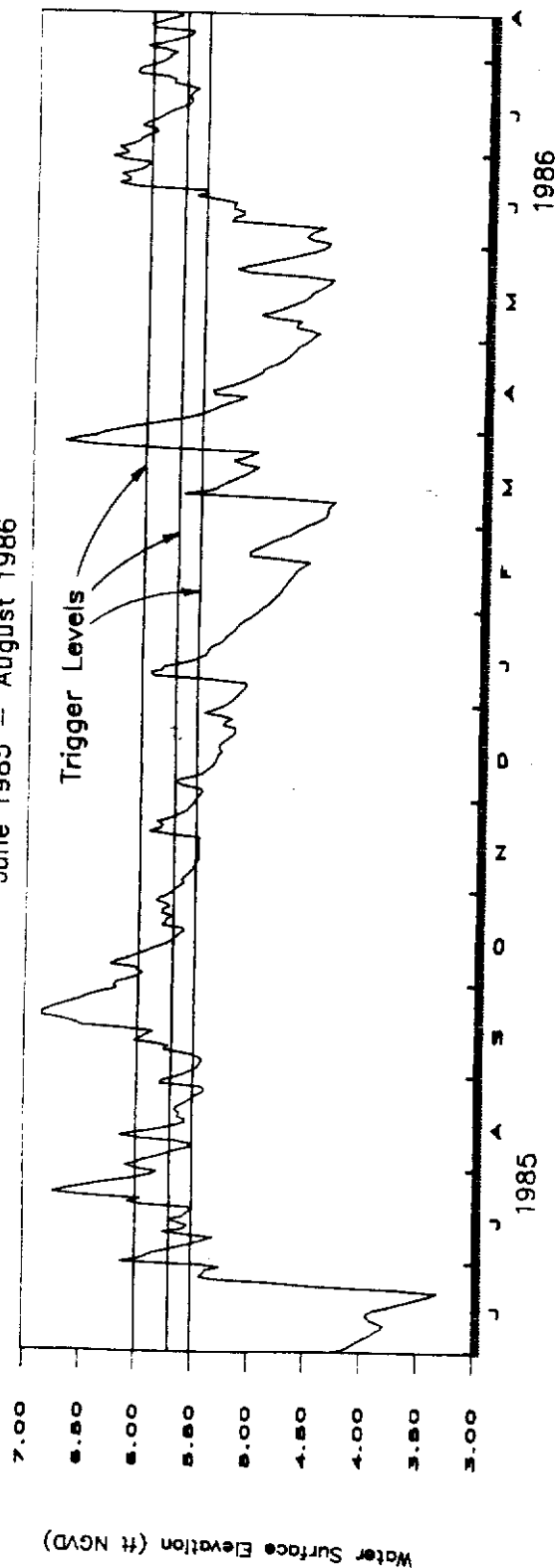
The two-year test agreement constrained the operation of the L-31N canal and S-333 when certain trigger water levels were exceeded (see Section IV). Figures 11 and 12 illustrate when trigger levels were exceeded during the test. Figures 13 and 14 illustrate how well actual operation of the L-31N canal and S-333 complied with the terms of the test agreement.

The operation of the L-31N canal upstream of S-331 was triggered by water levels in Angel's well. Figures 11(A) and 11(C) show the water levels in Angel's well during the period of the test and the water levels used to trigger operation of the L-31N canal. Figures 11(B) and 11(D) show the water levels called for by the test agreement (as triggered by the water levels in Angel's well), and they show the actual water levels in the L-31N canal for the period of the test. Shaded areas on the graph indicate when water levels in the canal exceeded those called for by the test agreement.

The water level in the L-31N canal south of S-331 was to be maintained at an elevation of about 4.3 feet. This target elevation is compared (Figure 12) to the actual water level (S-176 headwater) for the reach of the L-31N canal between S-331 and S-176. Recall from the discussion of the test agreement that the water levels in this reach of the canal were to be maintained by automatic operation of S-176. Water levels in the canal were allowed to rise to as much as 4.5 feet before the gate began to open or to drop as low as 4.1 feet before the gate began to close. These "bounds" on the canal level are also shown on Figure 12.

The triggers for interruption of normal S-333 operation were water levels in the L-29 canal and in the groundwater well G-3273. Figure 13 shows the water levels in G-3273 for the period of the test and its trigger level. Also shown in Figure 13 are the times that S-333 should have been closed by the terms of the test agreement and the times S-333 was actually closed. Figure 14 shows the water levels in the L-29 canal and its trigger level. Also shown on Figure 14 are the times S-333 operation was limited to prevent the water level in the L-29 canal from exceeding the trigger level.

(A) Angel's Well
June 1985 - August 1986



(B) L-31N Canal
June 1985 - August 1986

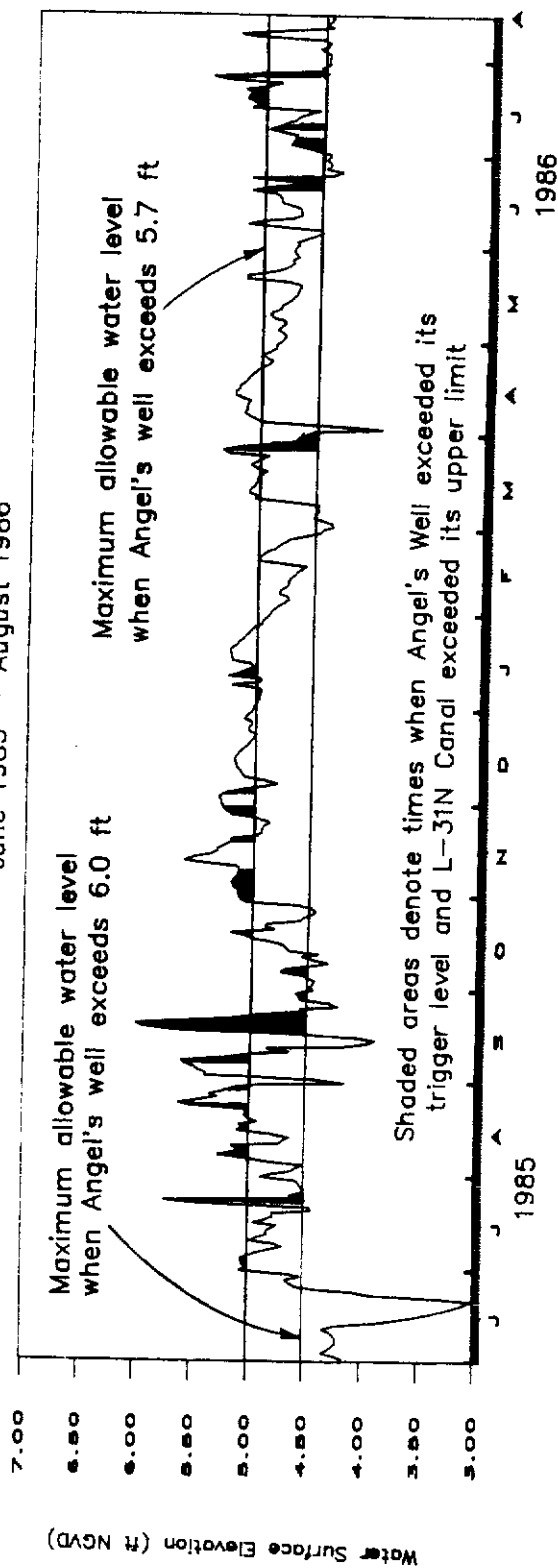


Figure 11. Comparison of Angel's Well and L-31N Water Levels North of S-331

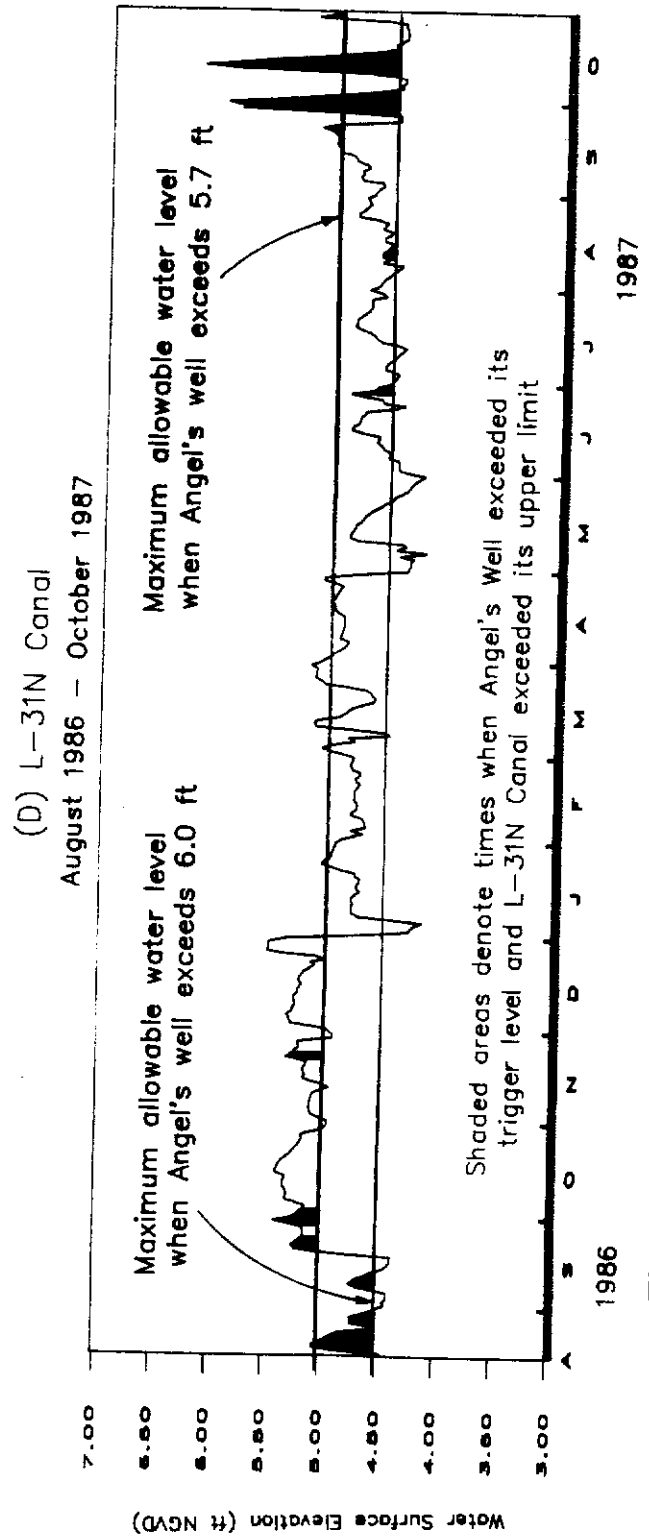
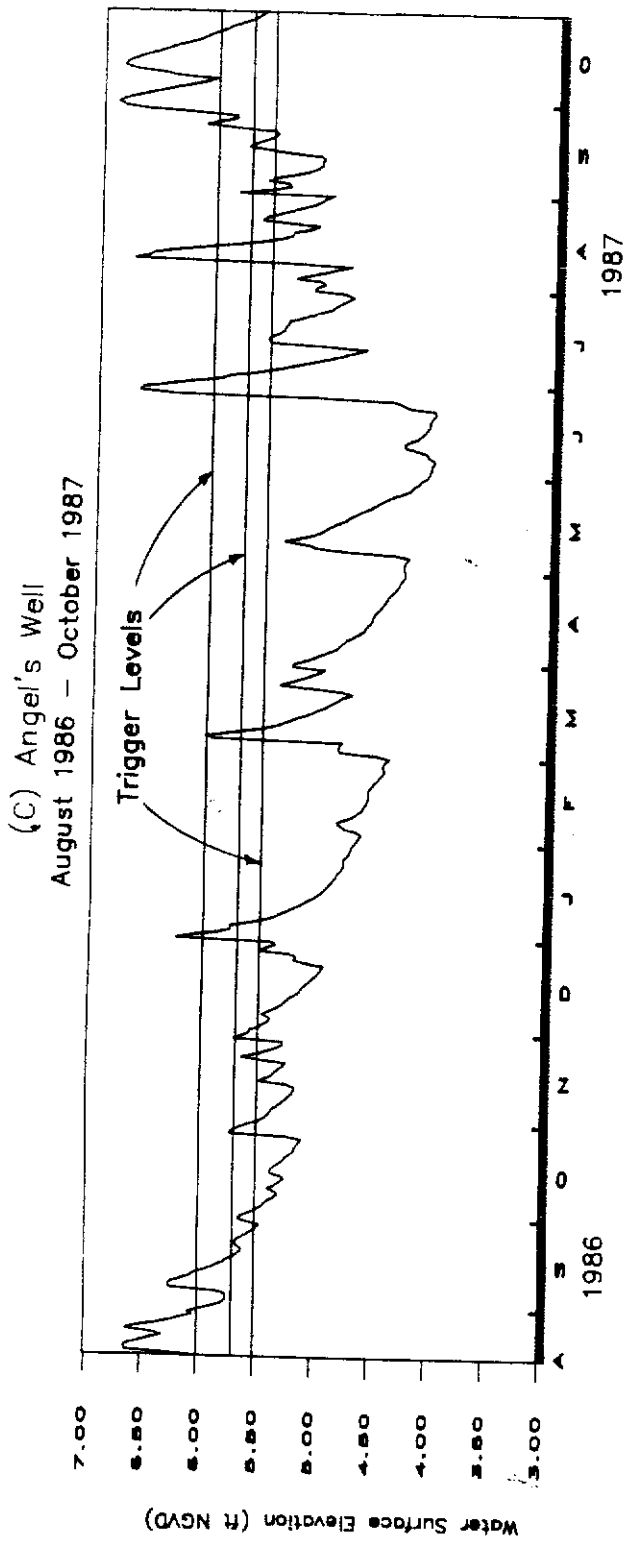


Figure 11. Comparison of Angel's Well and L-31N Water Levels North of S-331

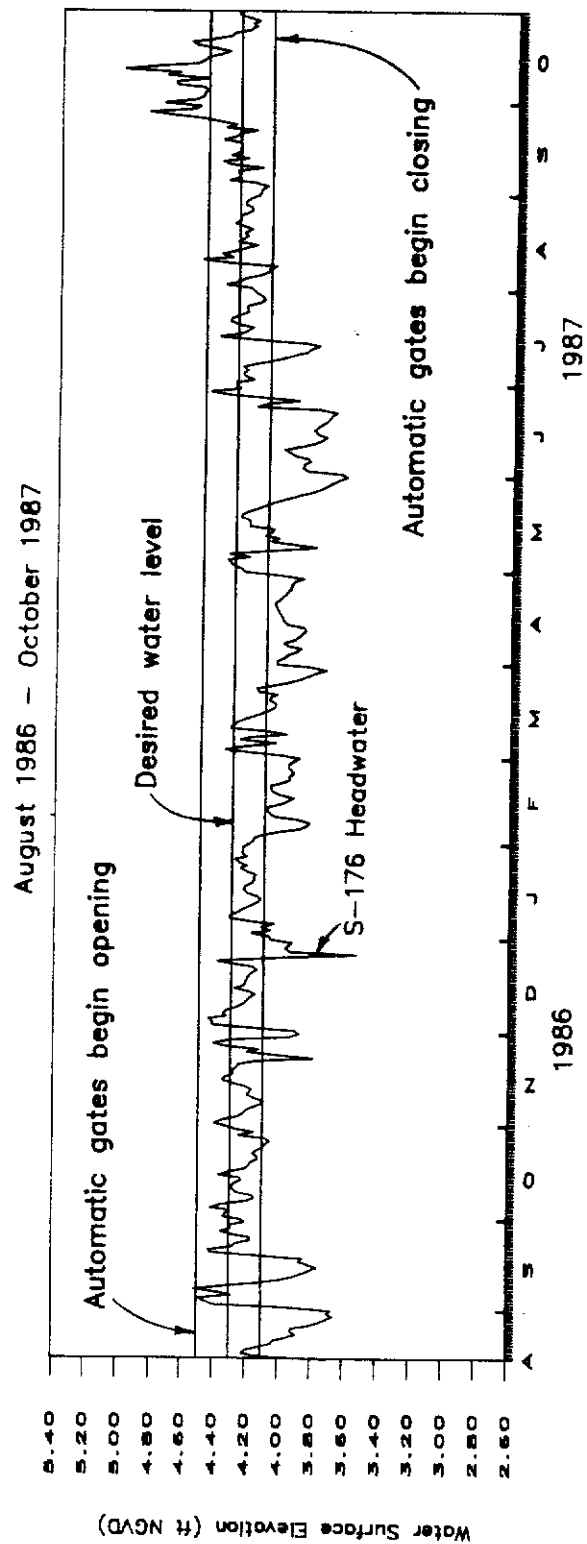
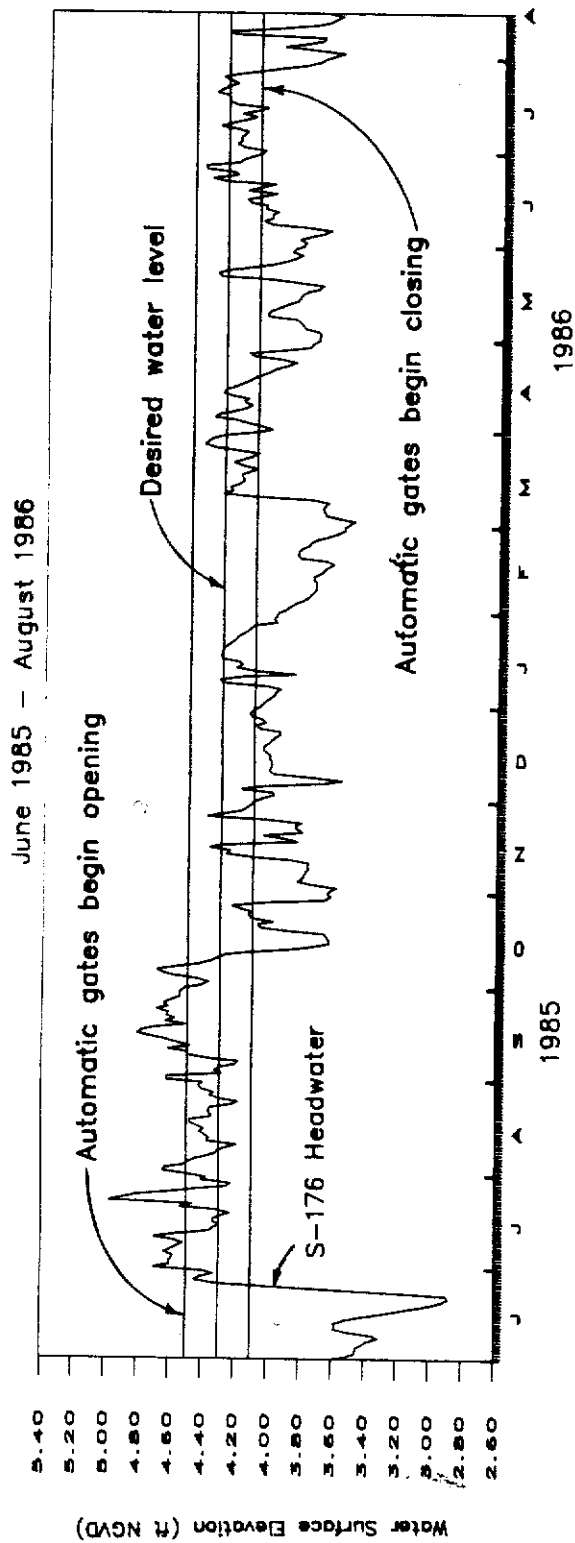


Figure 12. L-31N Canal Water Levels South of S-331

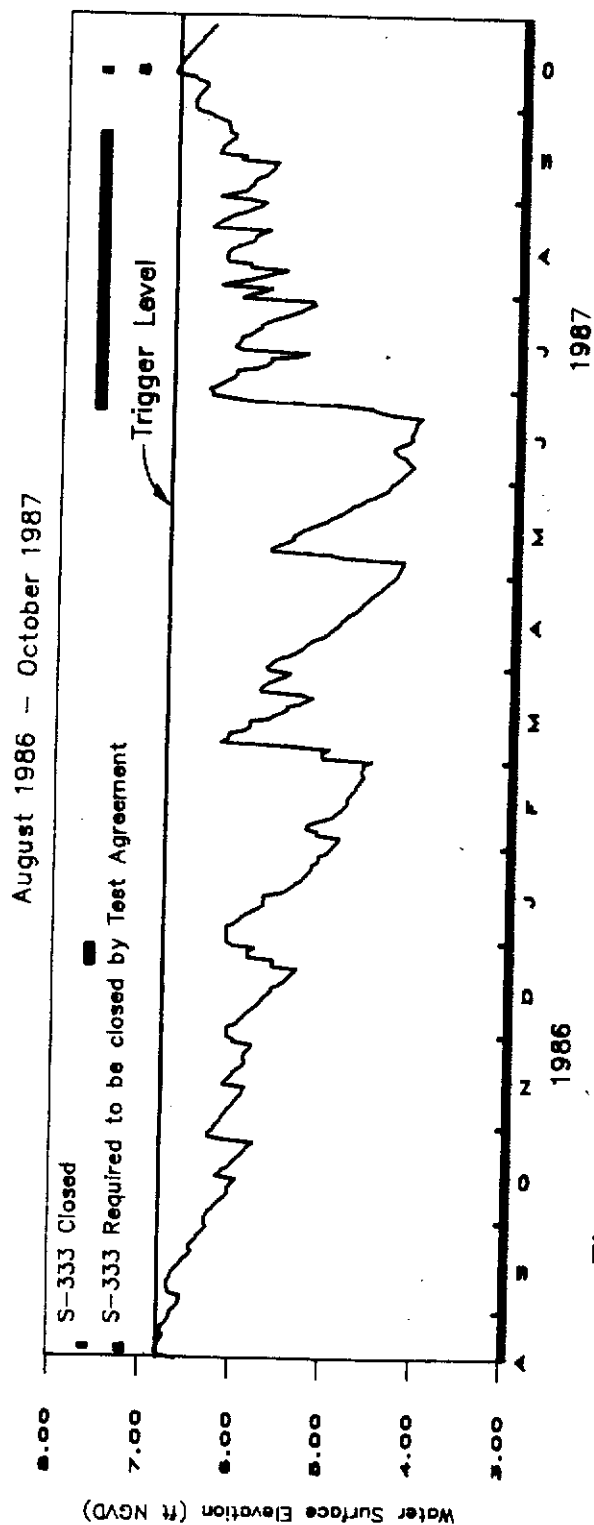
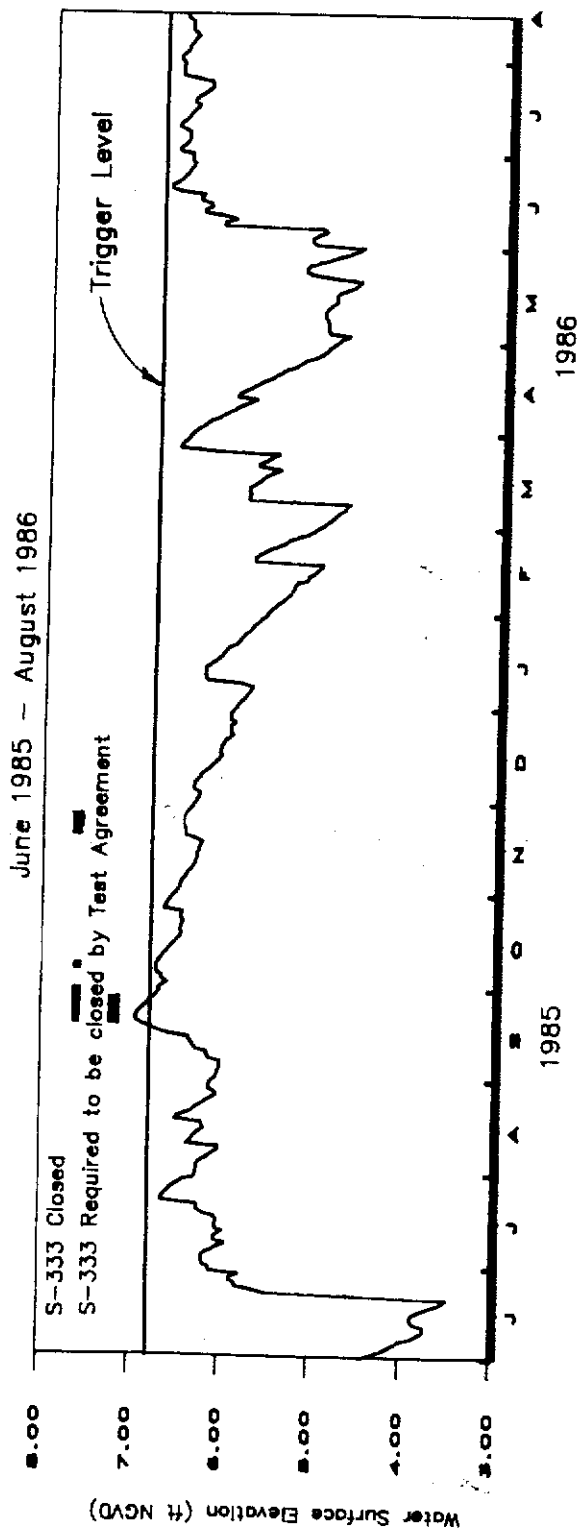


Figure 13. Comparison of G-3273 Well Water Levels and S-333 Operation

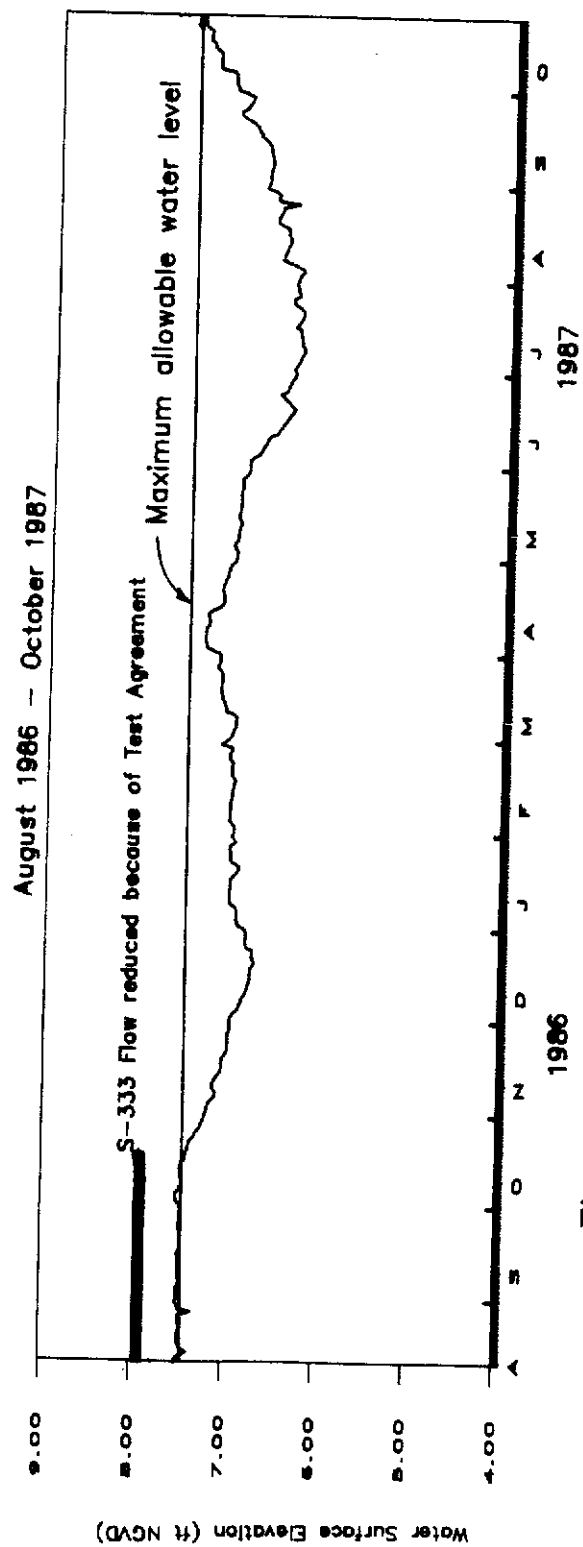
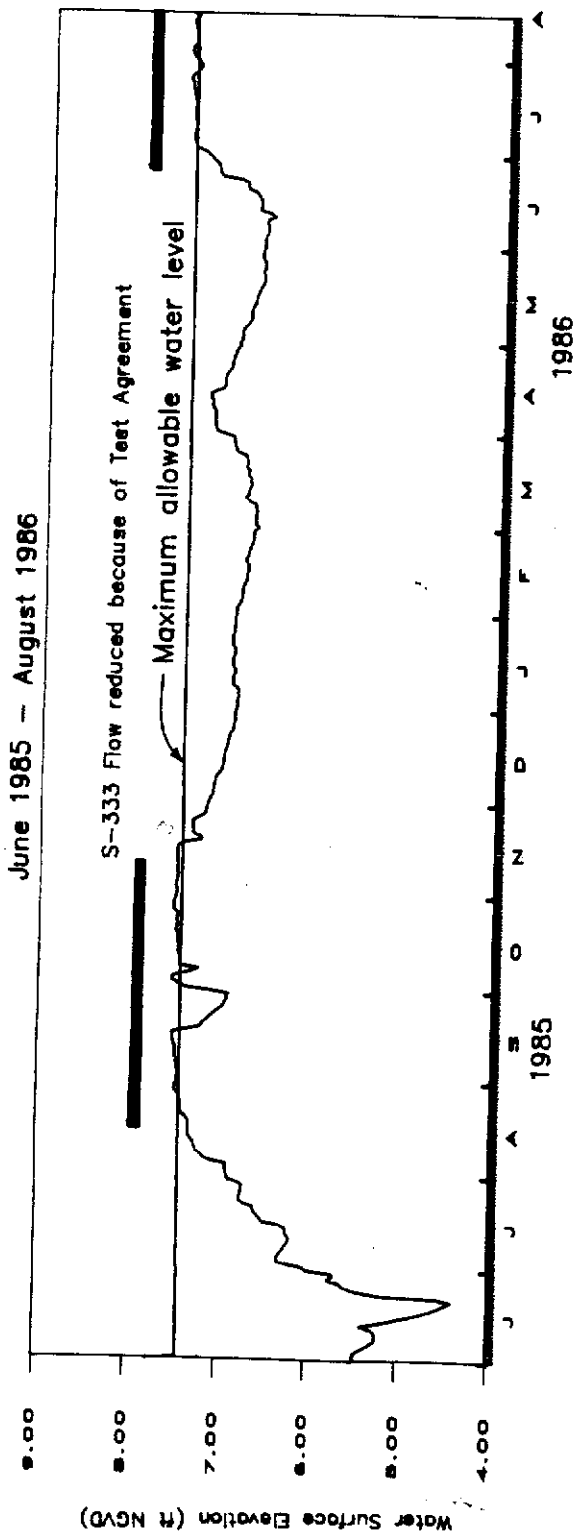


Figure 14. Comparison of L-29 Canal Water Levels and S-333 Operation

VI. ANALYSIS OF THE RESULTS

In this section of the report the Rainfall Plan was evaluated to determine if the objectives of the Plan were met and if the Plan was implemented without increasing the flood risk to the Rocky Glades area. Evaluation of the Plan is discussed under four headings: (1) **Meeting the Objectives of the Rainfall Plan**, (2) **Special Topics Related to the Implementation of the Rainfall Plan**, (3) **Hydrologic Condition of SRS**, and (4) **Flood Risk to the Rocky Glades Area**.

A. Meeting the Objectives of the Rainfall Plan

The objectives of the Rainfall Plan were to make the amount and timing of surface water discharge to SRS a function of current and antecedent weather conditions, to moderate the abrupt changes in flow that occurred under the previous WCA 3A regulation schedule, and to distribute flow across the entire slough.

1. Amount and Timing of Flow - The statistical model used to determine the rain-driven component of discharge to SRS was by design, a function of rainfall and evaporation upstream of the slough. The model has been shown to imitate the actual response of flow to upstream weather conditions for the period of record on which the model was based (refer to technical details in Appendix A). Although the model did not always accurately predict the magnitude of the flow response to upstream conditions for the period of record 1941 to 1952, much of the variability in timing and magnitude of the response has been preserved.

For the period of the test, the flow to SRS called for by the model exhibited considerable variability in amount and timing from year to year, especially in comparison to deliveries that would have been made under the two previous water management plans. Figure 15(A) shows the actual discharge to SRS under the Rainfall Plan, whereas Figures 15(B) and 15(C) show simulated discharges to SRS under the Minimum Delivery Schedule and the Flow-Through Plan, respectively. Figure 15(D) compares the discharge hydrographs of all three plans, and Table 6 compares seasonal flow volumes. The simulated flows were computed by a numerical model. This model was a simple mass-balance routing model of WCA 3A that used the same routing methodology as that used by the South Florida Regional Routing Model (SFRRM) (Trimble, 1986).

If the Minimum Delivery Schedule had been in effect during the period of the test, about the same amount of water would have been delivered to SRS as was delivered under the Rainfall Plan. However, the deliveries would not have been correlated to the upstream meteorologic conditions as they were under the Rainfall Plan. Furthermore, the regulatory component of the total delivery would have been about 90,000 acre feet larger than that of the Rainfall Plan.

If the Flow-Through Plan had been in effect during the period of the test, about 600,000 acre feet (53%) more water would have been delivered to SRS than was delivered under the Rainfall Plan. Since the Flow-Through Plan calls for unregulated flow through the S-12 structures, discharge to SRS would have depended solely on the water level in WCA 3A. Thus, the amount and timing of discharge to SRS via the Flow-Through Plan would have depended, in part, on upstream water management practices that affected the water level in WCA 3A. Figure 15D and Table 6 show that most of the additional flow to SRS via the Flow-Through Plan

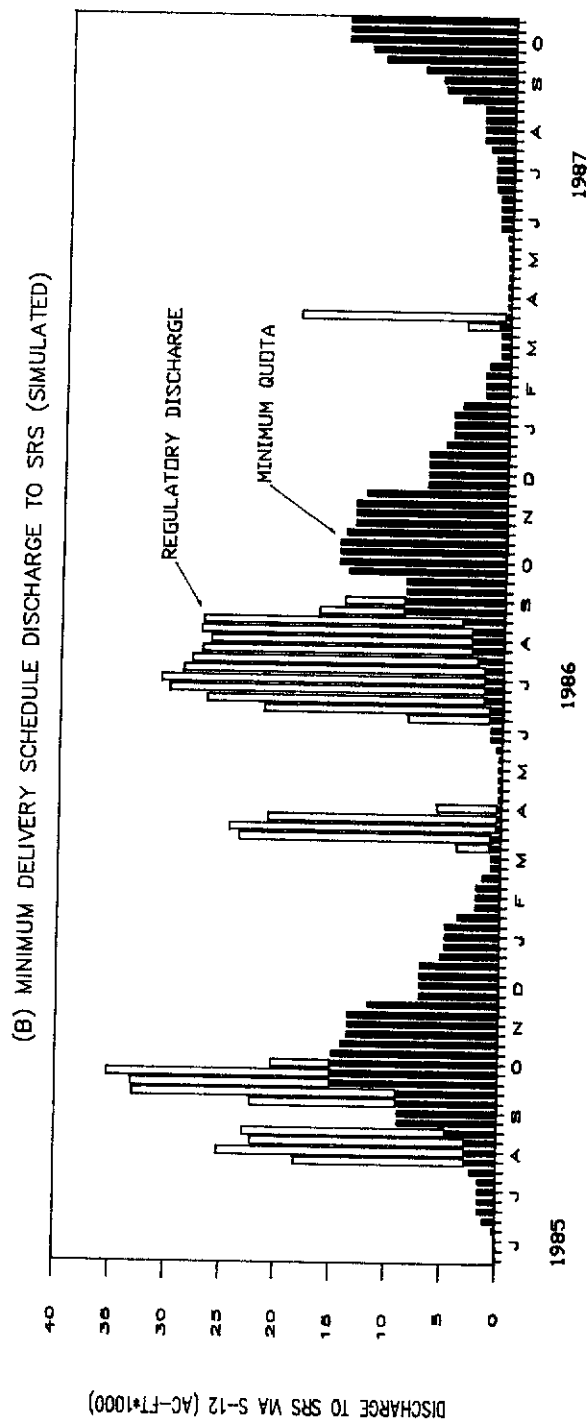
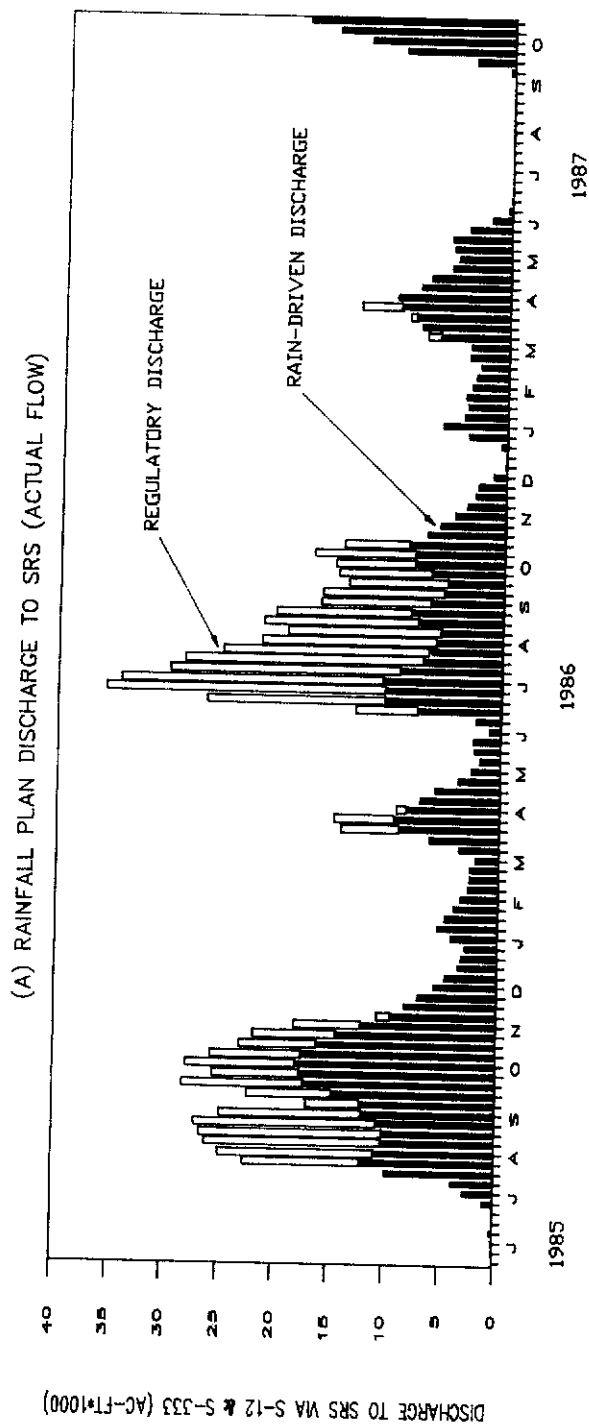


Figure 15. Discharge to SRS Under the Rainfall Plan, the Minimum Delivery Schedule, and the Flow-Through Plan

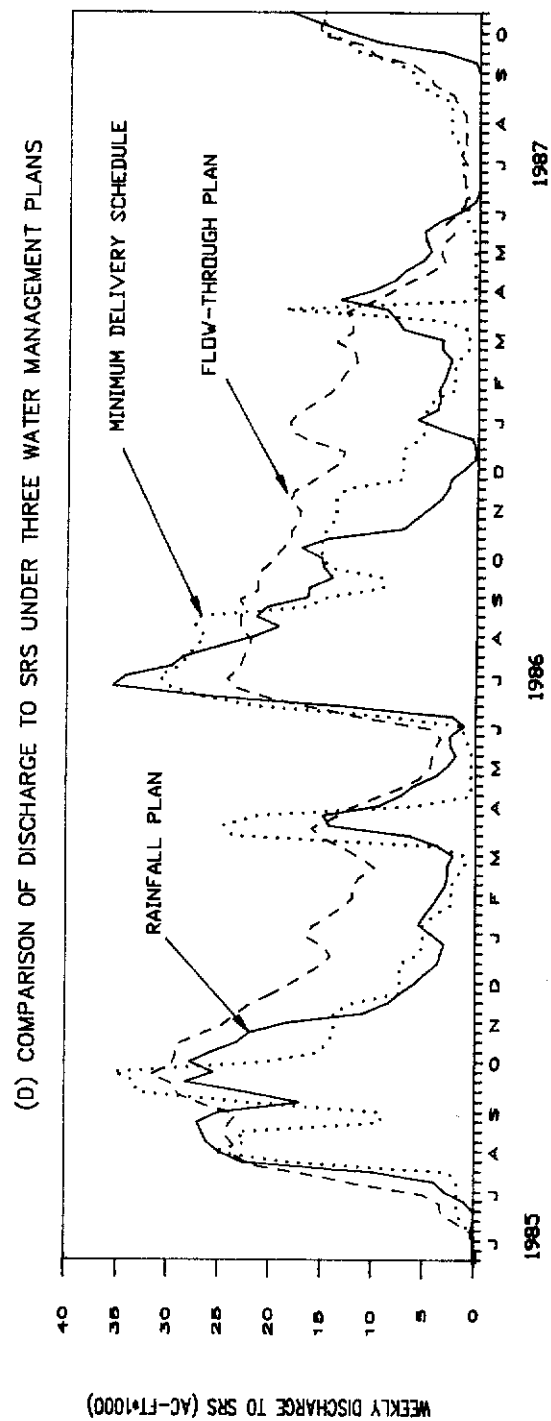
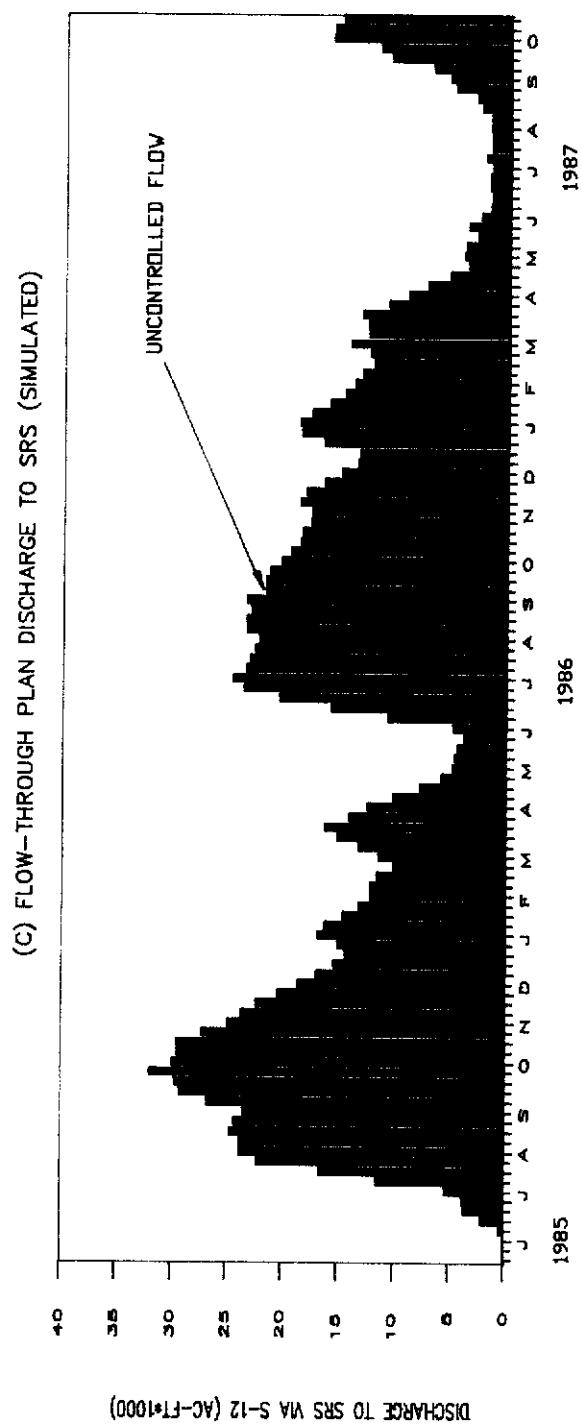


Figure 15. Discharge to SRS Under the Rainfall Plan, the Minimum Delivery Schedule, and the Flow-Through Plan

Table 6. Season Flow Volumes to Shark River Slough Under Different Water Management Plans

Water Management Plan	1985 Wet Season	1986 Dry Season	1985-86 Hydro- Year	1986 Wet Season	1987 Dry Season	1986-87 Hydro- Year	1987 Wet Season	Total
A. Rainfall Plan (Actual flow)								
Rain-Driven Discharge	174	175	349	147	140	287	63	699
Regulatory Discharge	154	30	184	247	6	253	0	437
Total SRS Discharge	328	205	533	394	145	540	63	1136
% of Target Met	83	92	86	79	91	82	94	85
% of Total to NESRS	40	54	45	39	55	43	55	45
B. Rainfall Plan Without Influence of IAP (simulated)								
Rain-Driven Discharge	174	175	349	147	140	287	63	699
Regulatory Discharge	145	16	161	132	0	132	0	293
Total SRS Discharge	319	191	510	279	140	419	63	992
% of Target Met	82	94	86	87	93	89	94	88
% of Total to NESRS	41	54	46	47	55	50	55	48
C. Rainfall Plan With Increased S-12 Flow (simulated)								
Rain-Driven Discharge	174	175	349	147	140	287	63	699
Regulatory Discharge	191	23	214	282	3	285	0	499
Total SRS Discharge	365	198	563	429	143	572	63	1198
% of Target Met	96	96	96	92	93	93	94	94
% of Total to NESRS	36	53	42	35	55	40	55	42
D. Minimum Delivery Schedule(simulated)								
Minimum Discharge	127	130	257	130	130	260	116	633
Regulatory Discharge	157	76	233	273	21	294	0	527
Total SRS Discharge	284	206	490	403	151	554	116	1160
% of Total to NESRS	0	0	0	0	0	0	0	0
E. Flow-Through Plan (simulated)								
Uncontrolled Discharge	375	441	816	421	390	811	111	1738
Regulatory Discharge	0	0	0	0	0	0	0	0
Total SRS Discharge	375	441	816	421	390	811	111	1738
% of Total to NESRS	0	0	0	0	0	0	0	0

would have occurred during the dry seasons. This would have prevented a more desirable recession in the flow hydrograph. Furthermore, water supply problems may have resulted since WCA 3A recharge of the Biscayne Aquifer would have been reduced. Simulation results indicate that lower water levels in WCA 3A would have occurred had the Flow-Through Plan been in effect from June 1985 through October 1987. The lower water levels would have reduced evapotranspiration and seepage losses from WCA 3A by about 530,000 acre feet.

It is important to note that deliveries specified by the Minimum Delivery Schedule and Flow-Through Plan were made to SRS entirely through the S-12 structures. Only the Rainfall Plan delivers part of the water to NESRS.

Although there was no way to verify whether the water delivered by the Rainfall Plan duplicated what would have occurred under natural conditions, it is clear that important aspects of the historic pattern of surface water flow to SRS have been reintroduced: response of surface water flow to upstream weather conditions and variability in amount and timing of flow.

The regulatory component of discharge during significant periods of the test was as much as twice the rain-driven component, significantly increasing the target flow to SRS (Figure 7). Although this extra flow was necessary to maintain the integrity of the WCAs, it was not tied to the upstream weather conditions used by the statistical model. The significance of these large regulatory releases to the environmental well-being of the Park has yet to be determined. Concerns about the large WCA 3A regulatory releases are addressed in Section VI.B.1.

2. Moderation of Abrupt Changes in Flow - The Rainfall Plan moderated the abrupt changes in flow rate that would have been experienced if the previous WCA 3A regulation schedule had been used during the test. Compare the simulated discharge hydrograph (Figure 15(D)) under the Minimum Delivery Schedule and the previous WCA 3A Regulation Schedule (Figure 3, dashed line) to the actual discharge hydrograph for the period of the test. Under the Rainfall Plan, the discharge hydrograph shows a more natural response to upstream rainfall conditions: a gradual rise in the hydrograph and an extended recession after the peak. The period from March to May of 1986 and 1987 clearly shows this. Under the Minimum Delivery Schedule, the hydrograph peaks would have been larger and sharper. The transition zones in the WCA 3A regulation schedule under the Rainfall Plan served to lower the hydrograph peaks and spread the regulatory discharge over a longer period of time. This prevented the sudden fluctuations in discharge that would have occurred with the old WCA 3A regulation schedule. Sudden fluctuations in flow rate, especially in the dry season, are known to be disruptive to wildlife in the Everglades (Kushlan, et al., 1975).

3. Spatial Distribution of Flow - It was not possible to obtain the desired spatial distribution of flow (i.e., 45 percent of the SRS target to the western flow section and 55 percent to the eastern flow section) for significant periods during the test. The distribution of flow varied with the amount of discharge to the slough. The relationship between distribution and amount of discharge to the slough during the test was inverse to the historic relationship between those parameters.

The percentage of the actual discharge to the eastern flow section (NESRS) as a function of the total actual discharge to SRS is shown in Figure 16. In general, for weekly discharge less than 14,000 ac-ft (1,000 cfs), it was possible to obtain the target discharge of 55 percent to NESRS. On a few occasions, however, the target NESRS

flow could not be met for some small discharge less than 5,000 ac-ft (360 cfs). These all occurred in January or February of 1987. Water was being released to the South Dade Conveyance System during this period. Apparently it was difficult to adjust the discharge at both S-333 and S-334 to obtain the small desired flow to NESRS.

During times when the Rainfall Plan called for weekly releases larger than 14,000 ac-ft (1,000cfs); S-333 discharge was often limited to amounts well below its target. As a result, the percentage of flow to the eastern flow section was often below the target percentage (Figure 16). Of the target SRS flow for the period of the test, 47 percent target was released to the western flow section and 38 percent was released to the eastern flow section. The remaining 16 percent of the target flow was not released to SRS. Of the actual SRS flow for the period of the test, 45 percent was released to the eastern flow section and 55 percent was released to the western flow section. The actual flow distribution was opposite to the desired distribution.

The actual distribution of flow to the eastern and western flow sections was within the range of historic distributions. The historic distributions, however, did not occur randomly; a given distribution was a function of the discharge (Figure 4). In order to compare the distribution of flow to SRS for the two-year test with historic distributions, consider the discharge to SRS for hydrologic year 1986-87 (the only complete hydrologic year during the test). Based on Figure 4, the distribution of flow to SRS (539,300 acre-feet) should have been about 60 percent to the eastern flow section and 40 percent to the western flow section. The distribution for hydrologic year 1986-87 for the actual SRS flow was 43 percent to the east and 57 percent to the west, and for the target SRS flow, 35 percent to the east and 47 percent to the west with 18 percent not delivered. Note that the target distribution for the two-year test, 45 percent to the west and 55 percent to the east, corresponds to a historic annual discharge of about 250,000 acre-feet.

With the current means of releasing water to the eastern flow section (S-333 and the L-29 culverts), there is an inverse relationship between discharge to SRS and the percent of that discharge to the eastern flow section: the greater the total flow to SRS, the smaller the percent of the total flow to the eastern flow section. This occurs because water levels in the L-29 canal are restricted to 7.5 ft (refer to Section IV.B.). During the test, it was never possible to discharge more than 1000 cfs through S-333, and in fact, discharge was often limited to much less than that. Assuming 1000 cfs is the maximum discharge to the eastern flow section, it is easy to see that as total discharge to the slough increases, the percentage of flow to the eastern section becomes smaller. Although not shown for annual data, Figure 16 shows how the percent of discharge to the eastern flow section decreases with increasing total discharge to SRS.

Although the desired spatial distribution of flow was not entirely achieved during the test, the Rainfall Plan provided a better distribution than was afforded by the previous water management plans. Figure 17 shows a hydrograph of seasonal discharge to SRS from 1979 through 1987. The flow to SRS is shown as the sum of the flow to ENP via the S-12 structures and the flow to NESRS via S-333.

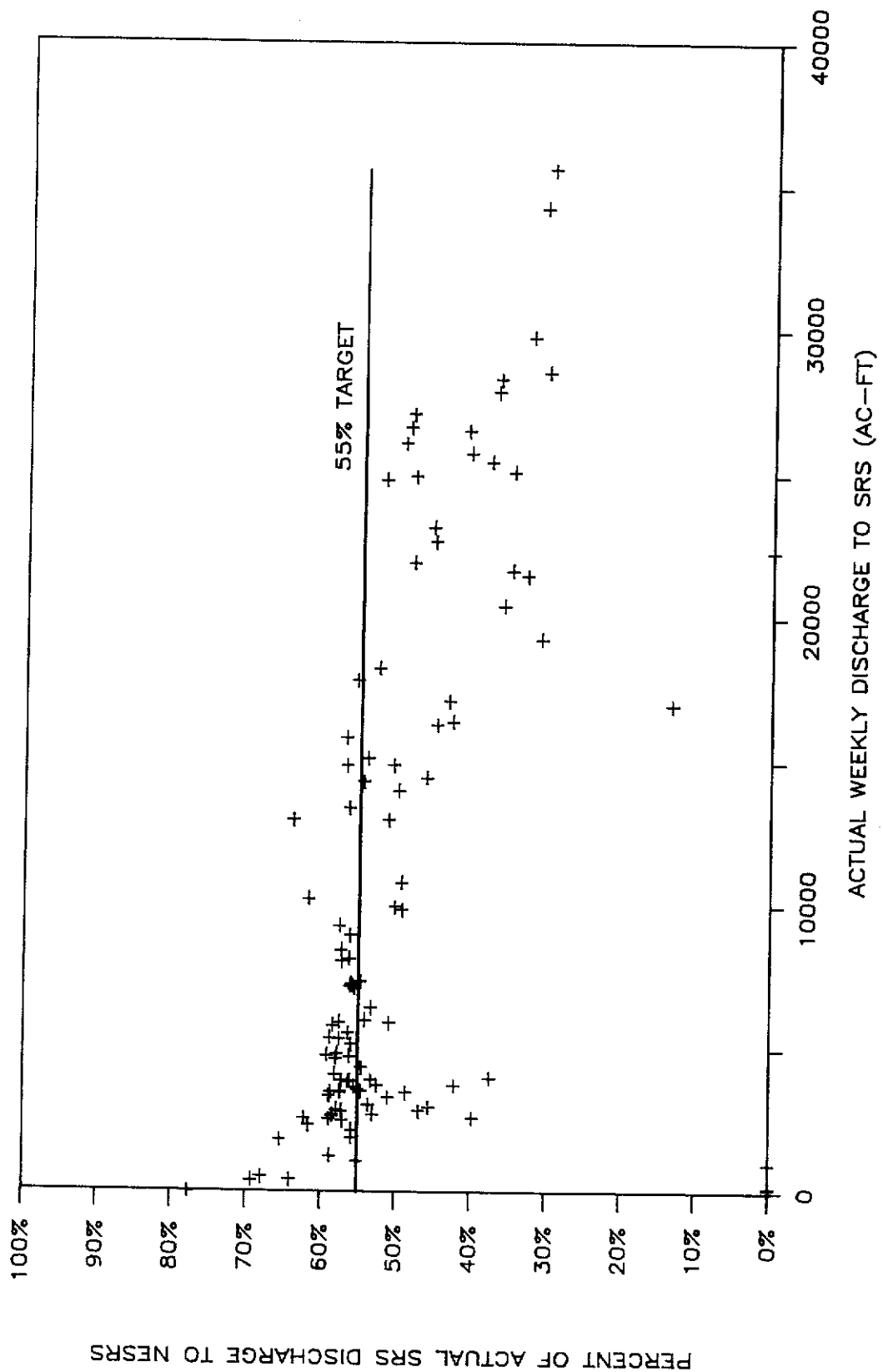


Figure 16. Relationship Between Percentage of Discharge to NESRS and Total Discharge to SRS During the Two-Year Test

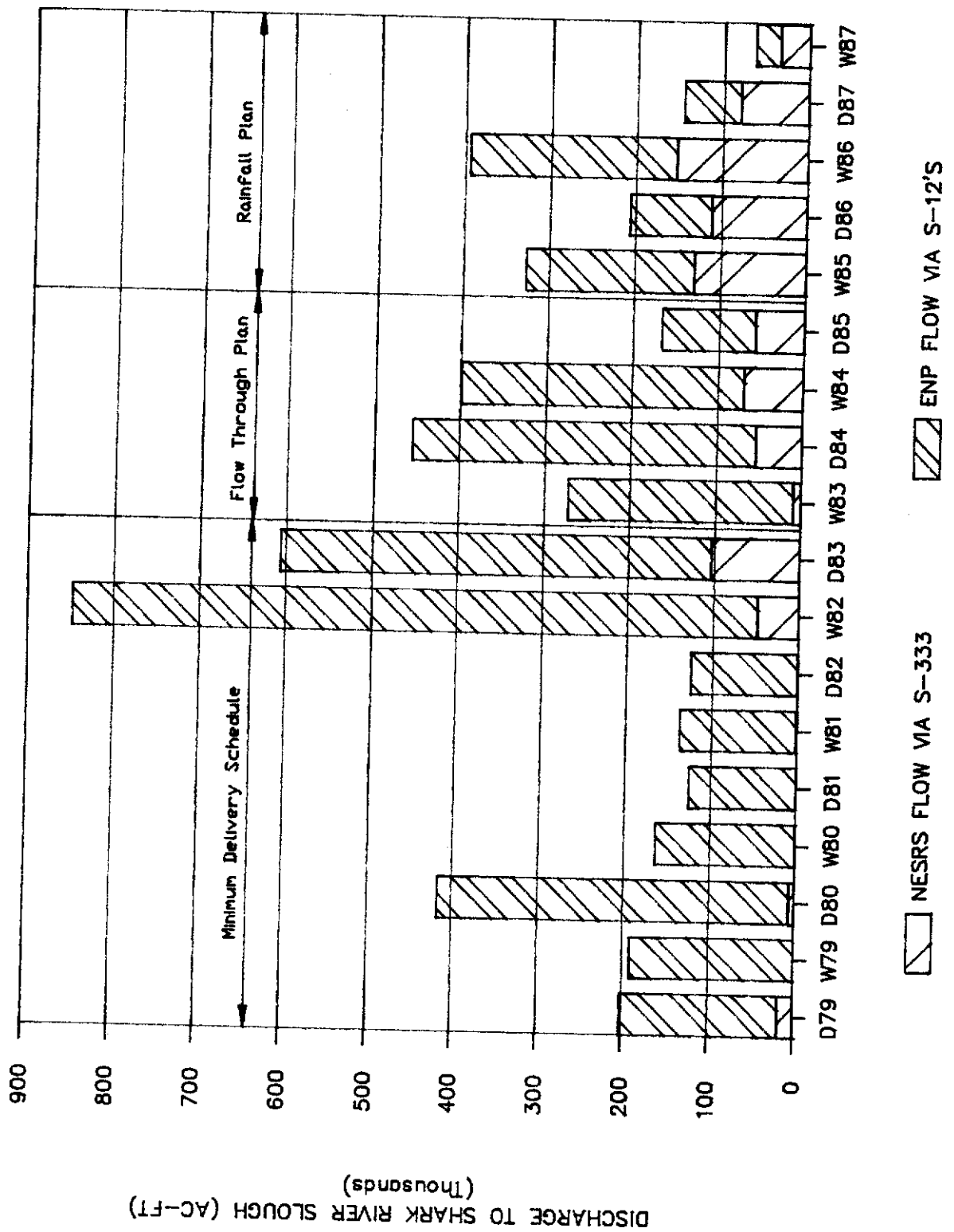


Figure 17. Seasonal Discharge to SRS from 1979-1987

Note that the amount of flow delivered to NESRS during the test was a large increase over the zero flow that occurred prior to the wet season of 1982. Also note that there were times prior to the test of the Rainfall Plan that discharge was made to NESRS. The discharge to NESRS that was made during the wet seasons of 1982 and 1983, and the dry season of 1983, was the result of District action to mitigate severe high water in ENP. Whereas the flow to NESRS that occurred during the dry seasons of 1984 and 1985, and the wet season of 1984, was the result of two field tests that were performed to assess the feasibility of delivering water to NESRS (refer to Section III). However, as can be seen by Figure 17, a larger proportion of the flow to SRS was made to NESRS during the test of the Rainfall Plan.

B. Special Topics Related to the Implementation of the Rainfall Plan

1. WCA 3A Regulatory Discharge - The results of the test of the Rainfall Plan showed that the regulatory component of the target SRS discharge was, at times, over twice that of the rain-driven component. Most of the difficulties in implementing the Rainfall Plan would not have occurred if the regulatory discharges had not been necessary. Recall that restrictions on S-333 discharge prevented the target amount and distribution of flow to SRS from being achieved during the 1985 and 1986 wet seasons when large regulatory releases were required. If regulatory releases had not been necessary during the test, it is likely that the amount and distribution of the target flow to SRS could have been met with the existing structures and operational limitations. This is illustrated by Figures 7 through 9. Note from these figures that the actual discharge to SRS, NESRS, and ENP exceeded the rain-driven component of the target discharge for nearly every week during the test.

Although the regulatory releases caused difficulties in implementation of the Rainfall Plan, the apparent consensus among Everglades ecologists is that the additional water is beneficial to the natural system, provided that the timing and flow rate transitions are an appropriate response to conditions. If it is determined, however, that the regulatory releases are all or in part environmentally undesirable, changes in the upstream water control facilities and/or operational criteria would be required to discharge the excess water elsewhere or to retain it in the WCAs north of ENP.

In speculating as to how the upstream water control facilities or operational criteria could be changed, if necessary, it is tempting to try to determine the "cause" of the large regulatory releases. It has been suggested, for example, that the current water management practice in the EAA has "caused", at least in part, the large regulatory discharges to SRS. It is difficult, however, to single out one factor since many factors, both natural and man-made, affect water levels in WCA 3A.

Natural factors that affect water levels in WCA 3A include rainfall, evapotranspiration, and seepage. Man-made factors include current upstream water management practices that affect inflow to and outflow from the WCA. Only those factors which increase WCA 3A water levels can trigger regulatory releases, although other factors may contribute to the amount of water that is in the WCA.

As an example of how a naturally occurring factor triggers WCA 3A regulatory releases, consider the effects of rainfall on the water level in WCA 3A. Higher-than-normal rainfall was experienced at the beginning of the 1985 and 1986 wet seasons (Table 3). Figure 18 shows how well the water level in WCA 3A is correlated to rainfall. Note the abrupt rise in water level into the regulation zones at the beginning of the 1985 and 1986 wet seasons is in response to rainfall. This may seem a bit confusing since the rainfall formula, by design, represents a natural relationship between rainfall in WCA 3A and SRS flow. However, WCA 3A is an impoundment whose levels must be managed to achieve its multiple objectives. Other factors probably contributed to the build-up of storage in the WCA, but rainfall appears to have "pushed" the WCA 3A water level above its regulation schedule.

It is important to realize that the development of the Central and Southern Florida Flood Control Project radically changed the hydrology of the Everglades. As much of the construction occurred at a time when little information about the hydrology of the Everglades was being collected, it is difficult to determine what effect various parts of the Project or their operation have had on the hydrology of the Everglades. It is possible, however, to examine the contribution of a water management practice to the regulatory releases to SRS. To that end an analysis has been performed to assess the influence of the current water management practice in the EAA on WCA 3A regulatory releases to SRS.

By design, drainage from the EAA is both to Lake Okeechobee and to the WCAs. In practice, the part of the EAA drainage that is discharged to the WCAs depends on the water management practice that is in effect. Prior to 1979 the District pumped a larger part of the EAA drainage to Lake Okeechobee than it does today. After 1979, the District discharged most of the EAA drainage to the WCAs. This latest water management plan is known as the Interim Action Plan (IAP) and was permitted by the Florida Department of Environmental Regulation under the Lake Okeechobee Operating Permit. Numerical simulation results indicate that the additional inflow to WCA 3A resulting from the IAP contributed to the build-up of storage in WCA 3A. This build-up of storage increased the regulatory discharge to SRS during the test of the Rainfall Plan as compared to what would have occurred if the water management practice in the EAA had been as it was prior to 1979.

In order to estimate the impact that the IAP had on the inflow to WCA 3A during the test, the South Florida Regional Routing Model (SFRRM) (Trimble, 1986) was used to estimate the reduction in inflow to WCA 3A had the IAP not been in effect. Table 7 shows the results of this simulation. The SFRRM simulation results indicate that between June 1985 and October 1987, as a result of the IAP, the amount of water discharged to WCA 3A was 630,000 acre feet more than if the pre-1979 water management plan had been in effect.

The simple mass-balance routing model developed for the simulations of the Minimum Delivery Schedule and Flow-Through Plan (Section VI.A.1.) was used to estimate the impact of the additional inflows to WCA 3A on regulatory discharge. Results of this simulation show that if the IAP had not been in effect during the test, water levels in WCA 3A would have been lower than actual levels (Figure 19A). During the 1985 wet season, the levels were similar since the IAP was suspended from July through September due to the 1985 drought. However, in the dry season of 1986, the effects of the IAP became evident; simulated water levels were lower than actual by 0.3 ft to 0.4 ft during the 1986 wet season, and remained about 0.4 ft to 0.5 ft lower through the 1987 wet season.

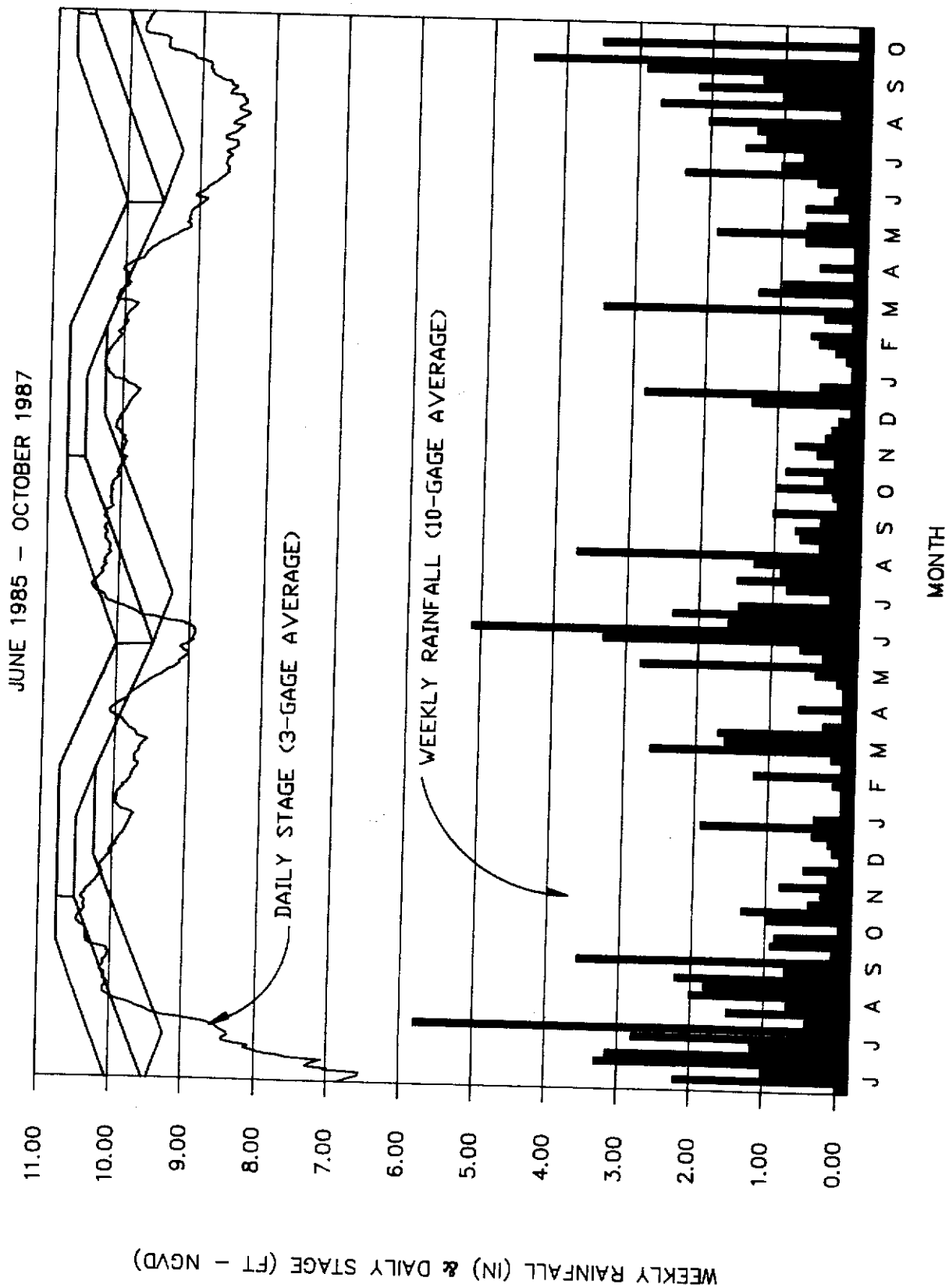


Figure 18. Effects of Rainfall on WCA 3A Water Levels

Table 7. Actual and Simulated WCA 3A Inflows (thousands of acre feet)

Hydrologic Period	WCA 3A Rainfall ¹	Actual Inflow ² to WCA 3A			Estimated ⁴ Reduction in Inflow to WCA 3A Without the IAP
		from EAA	from WCA 2A	Total	
Wet Season 1985	1485	127	433	560	233
Dry Season 1986	732	52	576	628	90
Hydrologic Year 1985-86	2217	179	1009	1188	113
Wet Season 1986	1174	417	207	624	281
Dry Season 1987	774	122	213	335	125
Hydrologic Year 1986-87	1948	539	420	959	406
Wet Season 1987	1248	115	0	115	111
Total Inflow (5/85-10/87)	5314	833	1429	2262	630

¹Rainfall from Table 3 over 767 square-mile WCA 3 area

²Inflow computed for S-8 and S-11 structures

³Interim Action Plan (IAP) suspended July-September 1985

⁴Simulation performed using the South Florida Regional Routing Model (SFRRM)(Trimble, 1986)

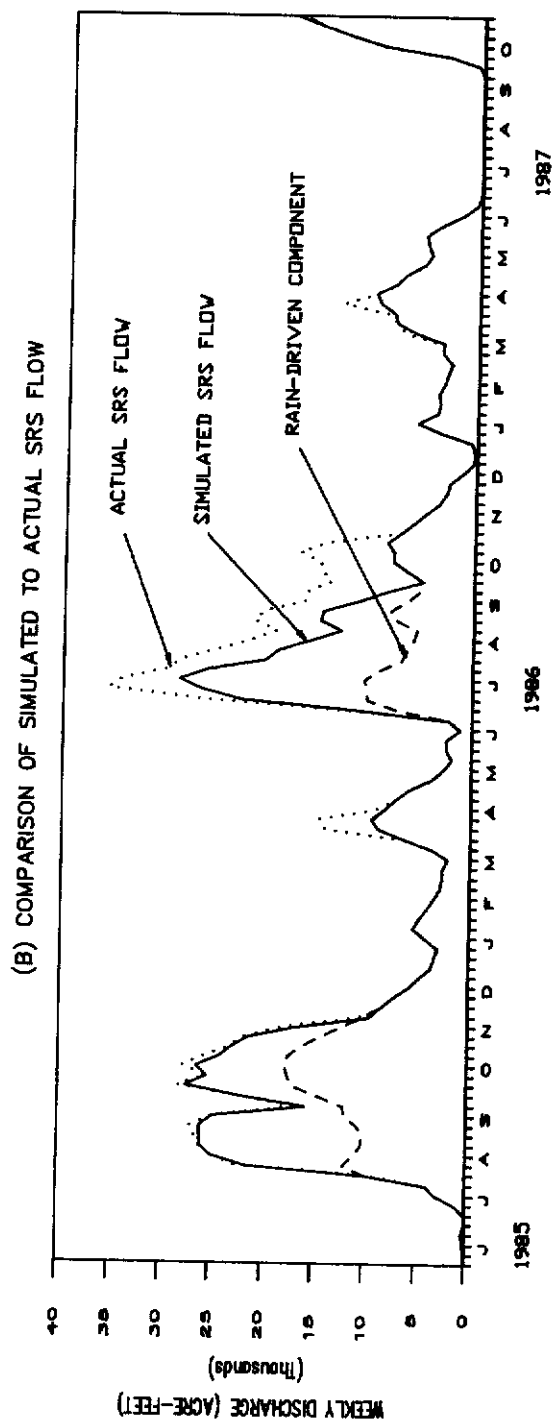
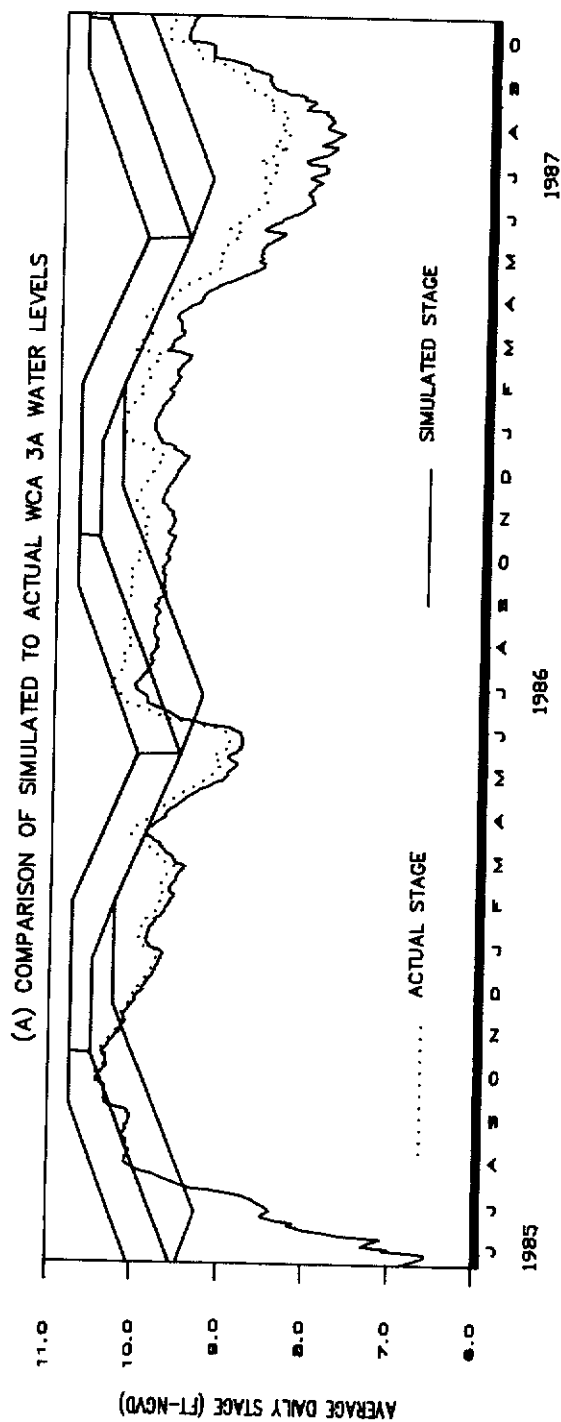


Figure 19. WCA 3A Water Levels and SRS Flow: Simulated Assuming the IAP Had Not Been in Effect

Lower WCA 3A water levels would have resulted in smaller regulatory discharge to SRS. Figure 19(B) shows the actual and simulated SRS discharge hydrographs. The difference between the discharge to SRS and the rain-driven discharge is the regulatory discharge. The simulated and actual regulatory flows are nearly the same except for the 1986 wet season. Table 6 shows that the regulatory flows would have been 115,000 acre feet less during the 1986 wet season had the IAP not been in effect. Over the period of the test, the regulatory flows would have been reduced from 437,000 acre feet to 293,000 acre feet; a decrease of 144,000 acre feet (a 33 percent decrease). Simulation results also indicate that the lower WCA 3A water levels would have decreased WCA 3A losses to evapotranspiration and seepage by 385,000 acre feet over the period of the test.

2. Operational Policy Regarding Discharge Through the S-12 Structures - Results of the test show that the target flow to SRS was not met during the wet seasons of 1985 and 1986 when the target flow through S-333 could not be met. (refer to sections IV.B. and V.B.3.). At the option of ENP, additional flow could have been discharged through the S-12 structures to meet the SRS target. ENP chose not to accept the additional flows so as to maintain as closely as possible the desired distribution of flow across the slough (refer to section II.C.).

The COE claimed that by retaining the water in WCA 3A, an increase in regulatory flows in subsequent weeks would result, thereby inhibiting the recession of flow in the dry season.

Numerical simulation results indicate that if the flow through the S-12 structures had been increased when S-333 flow was restricted, a greater percentage of the target SRS flow could have been met. Increasing the flow through the S-12 structures, however, would have caused the distribution of flow to deviate further from the desired split (55 percent through S-333 and 45 percent through the S-12 structures). Although the peak flow would have been increased, the dry season recession rates and flows would not have changed markedly.

Figure 20(A) shows a comparison of the hydrographs of the simulated and actual discharge to NESRS and SRS. Note that the simulated NESRS hydrograph is nearly the same as the actual NESRS hydrograph; this was expected since the simulated S-333 flow was also limited by the allowable water level in the L-29 canal. The difference between the simulated and actual SRS flow is due to the difference between the simulated and actual S-12 flow. Also note that the simulated SRS flow exceeds the actual SRS flow during the wet seasons, but the simulated hydrograph recessions and the duration of the high discharges are about the same as those of the actual hydrograph. Simulated dry season flows were equal to the actual dry season flows.

Table 6 shows that if the discharge through the S-12 structures had been increased, 13 percent more of the target would have been met during the 1985 and 1986 wet seasons. For the period of the test, 94 percent of the target would have been met, an increase of 9 percent (62,000 acre feet) over the actual flow. However, Table 6 also shows that for the period of the test, the percentage of the SRS flow that would have been delivered to NESRS decreased from 45 percent to 42 percent. The same amount of water would have been delivered to NESRS, but the fraction of the total SRS flow to NESRS decreased since more water would have been discharged through the S-12 structures.

Figure 20(B) shows a comparison between the simulated and actual water levels in WCA 3A. Note that the simulated levels closely track the actual levels. Also note that the simulated and actual water levels are equal at the end October, 1987. This means that the simulated outflows and losses were the same as the actual outflows and losses, even though the simulated discharge to SRS exceeded the actual discharge by 62,000 acre feet. Results of the simulation indicate that the slightly lower WCA 3A water levels during the 1985 and 1986 wet seasons resulting from the increased discharge through the S-12 structures would have decreased WCA 3A losses to evapotranspiration and seepage over the period of the test by 62,000 acre feet, in this case, equal to the increased discharge.

C. Hydrologic Condition of Shark River Slough

The goal of the Rainfall Plan is to recreate hydrologic conditions in SRS compatible with the natural environment of the slough. This section presents information and discussion about the water levels and hydroperiods that were experienced at selected monitoring sites in ENP and NESRS during the test. Water movement in NESRS is also discussed, and a water budget for the NESRS area is presented.

1. Water Levels in SRS - Three general sub-areas of SRS were defined to present and discuss information concerning the water levels that were experienced in the slough during the test: (1) Northeast NESRS, (2) ENP west of L-67 Extension, and (3) L-67 Extension. Figure 21 shows the location of the water level monitoring sites in the NESRS area, and Figures 22 to 25 show water level hydrographs for the sites in the defined sub-areas. Land surface elevations for the sites are shown on the hydrographs to indicate water depths.

a. Water Levels in Northeast NESRS - Figure 22 shows water level hydrographs for three sites within northeastern NESRS: NESRS 2, NESRS 3, and G-618. Also shown on Figure 22 are the L-29 and L-31N canal water levels and the major inflows to NESRS, S-333 discharge and rainfall as recorded at S-336.

Water levels in this part of NESRS responded both to S-333 discharge and to rainfall. Note that the seasonal rises and recessions of the NESRS water level hydrographs correspond to those of the S-333 discharge hydrograph. Short term effects of rainfall are evidenced by the saw-toothed appearance of the hydrographs. The small, sharp peaks correspond to daily rainfall events.

The separate effects of rainfall and flow on water levels in the slough are difficult to ascertain except during times when either rainfall or flow occurred while the other did not. Effects of S-333 flow on water levels were evident during part of September 1985 when S-333 was closed. Little, if any, rainfall occurred during this time and the water levels in the L-29 canal, at G-618, and at NESRS 2 and 3 abruptly dropped when S-333 flow stopped. Water levels at these sites quickly rose when discharge at S-333 resumed.

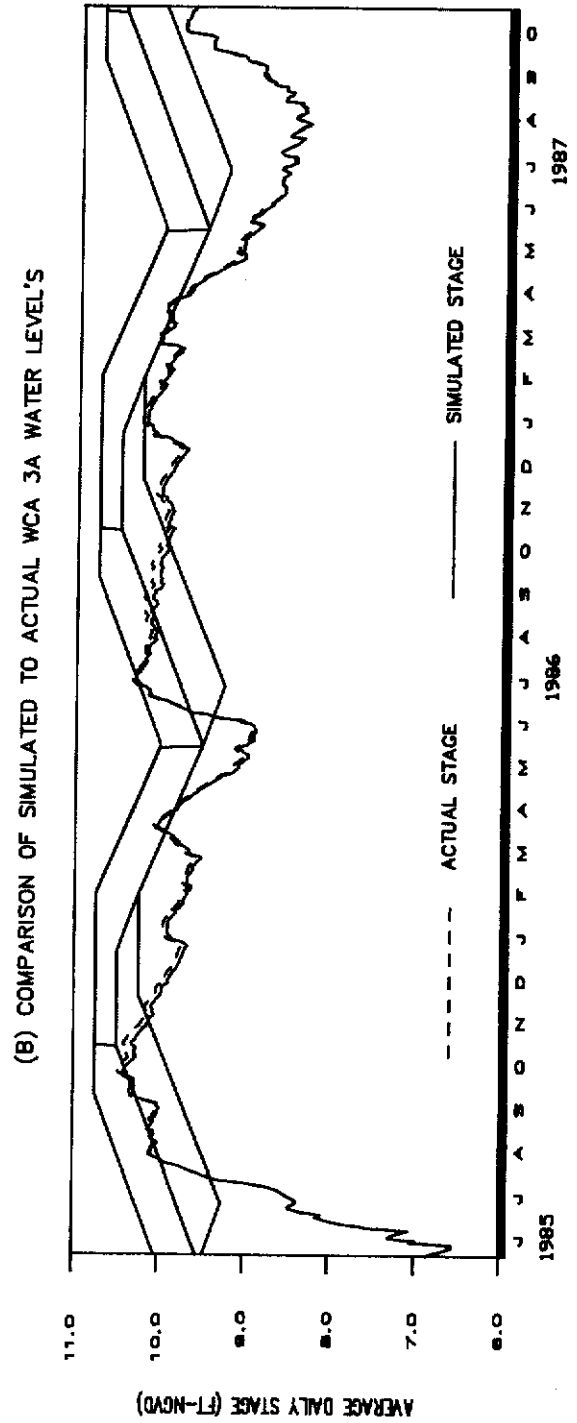
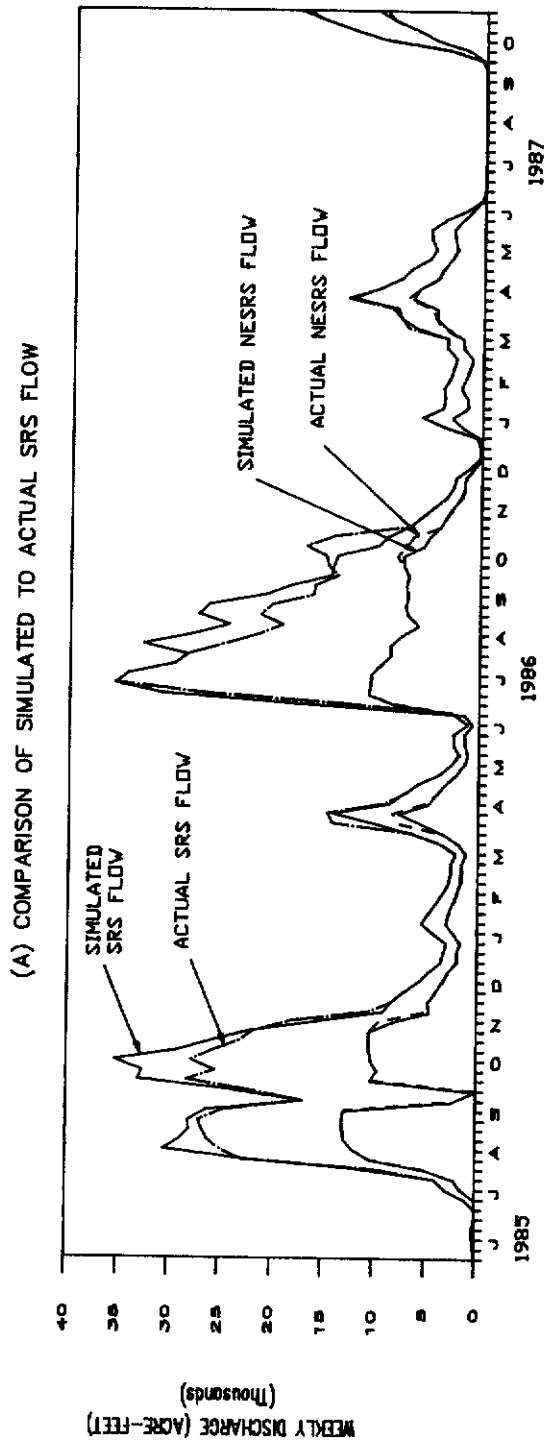


Figure 20. SRS Flow and WCA 3A Water Levels: Simulated Assuming the S-12 Structures Passed the Flow that S-333 Could Not

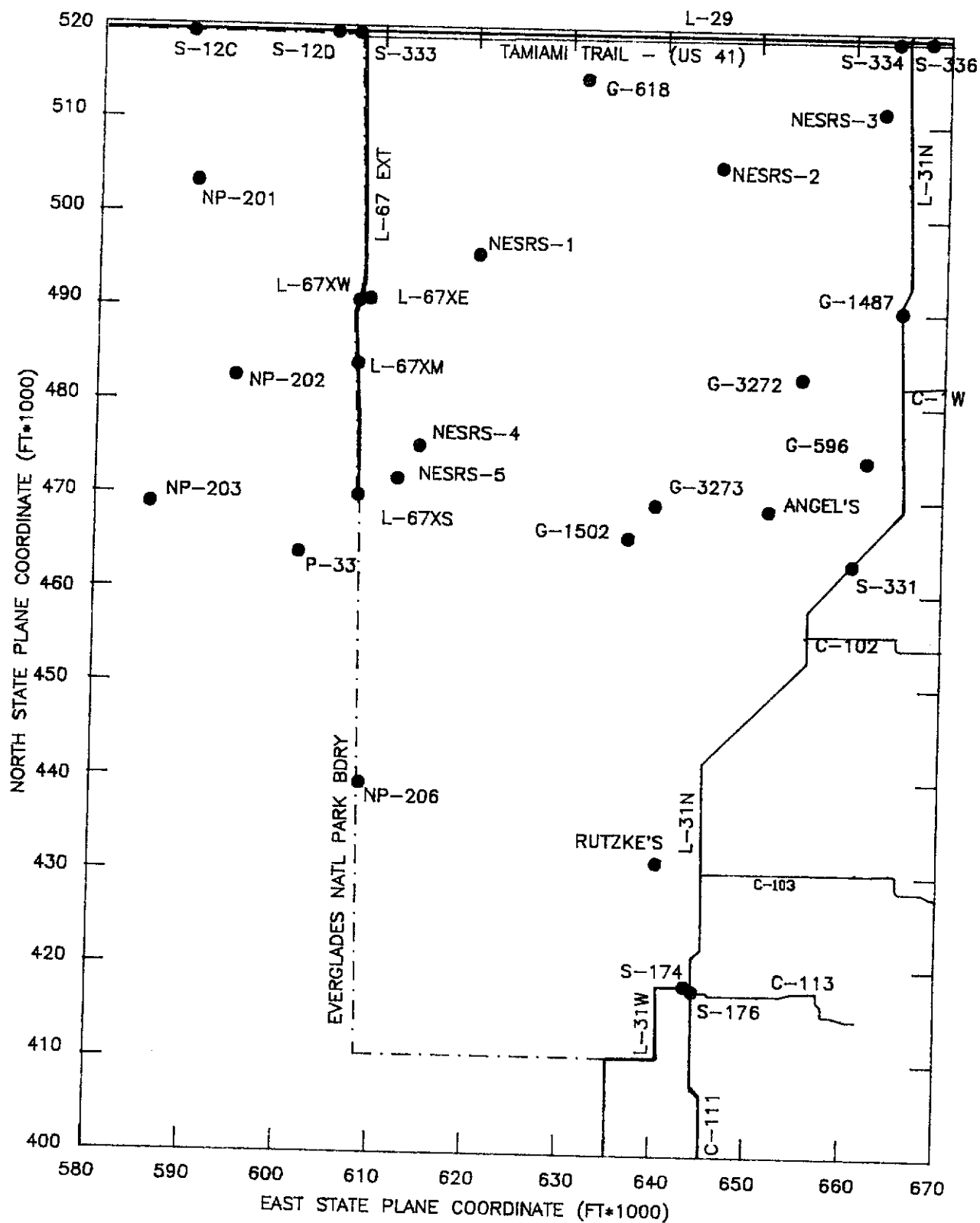


Figure 21. Hydrologic Data Monitoring Sites - NESRS Area

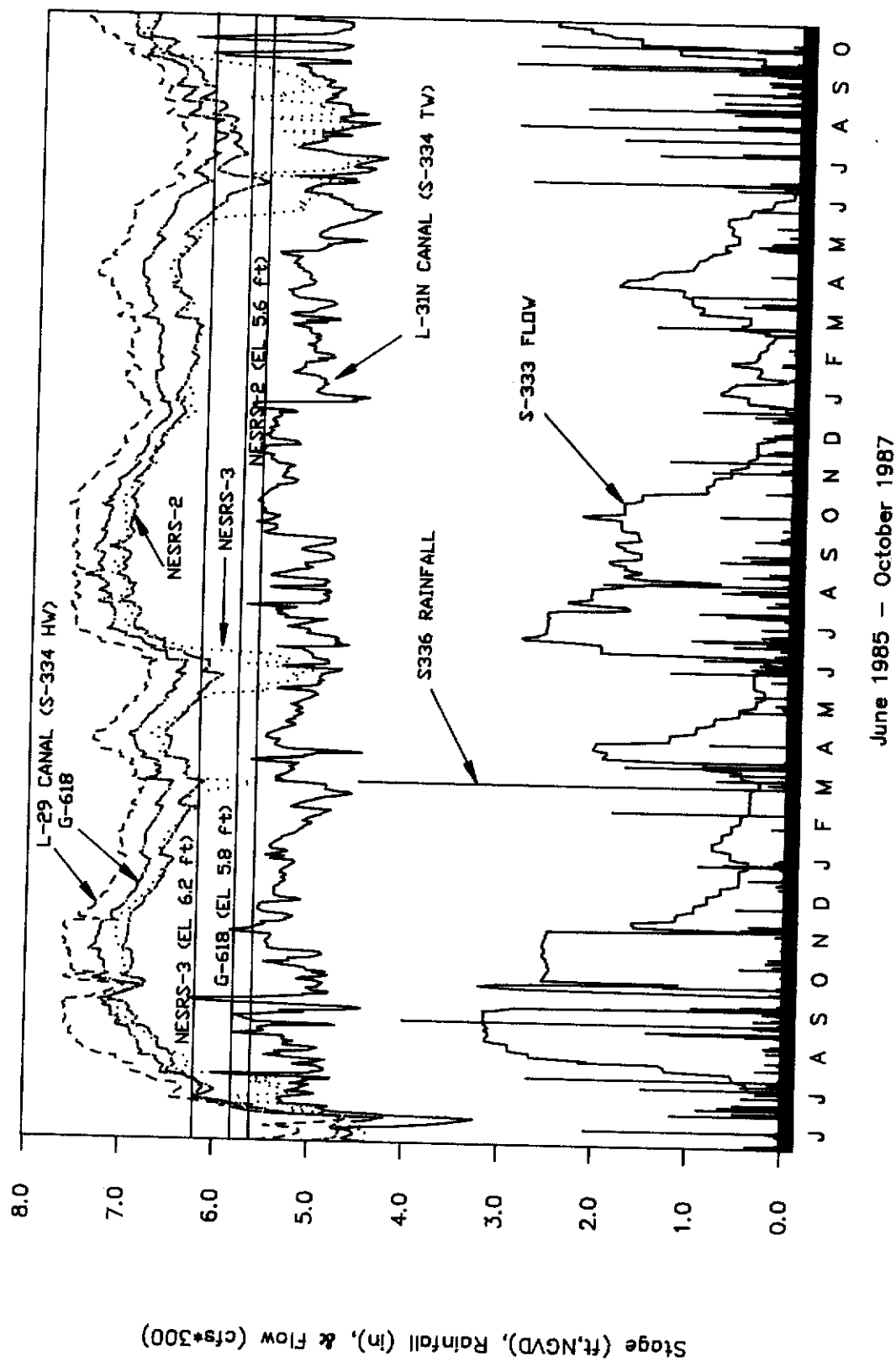


Figure 22. Water Levels and Rainfall in, and Inflows to, Northeast NESRS

Effects of rainfall were particularly visible at the beginning of the 1985 wet season and during three months of the 1987 wet season when there was no flow to NESRS. Water levels in the slough and in the L-29 and L-31N canals rose quickly in response to rainfall events during these times. The effect of rainfall on water level is more distinct when the water level is below ground elevation. Note that the NESRS 3 water level was below ground during the 1987 wet season and fluctuated more widely in response to rainfall than when it was above ground.

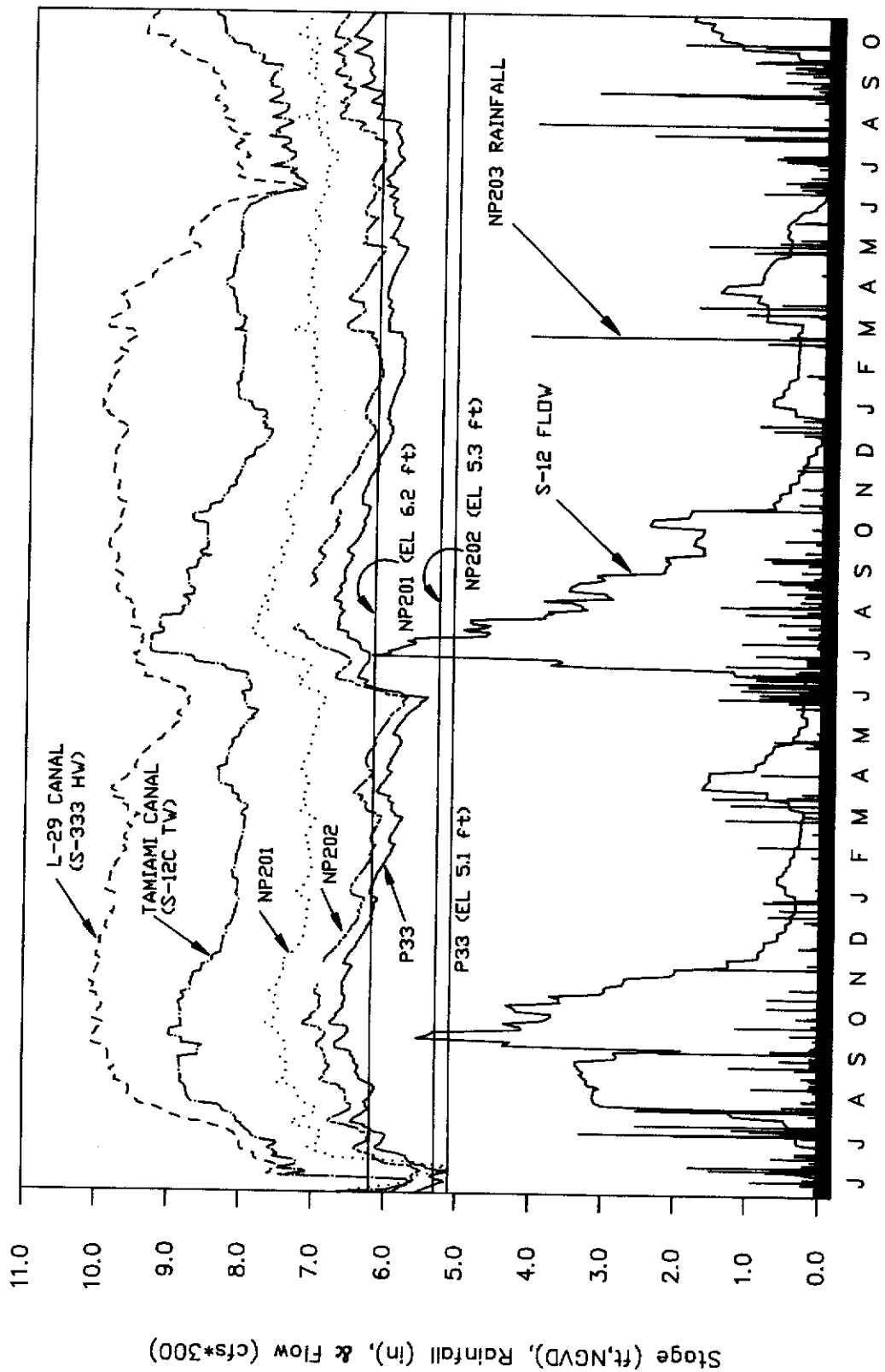
From Figure 22 it can be seen that the water levels decrease with distance from the L-29 canal, indicating that flow is away from the canal to the south. G-618 is closest to L-29, and its hydrograph tracks closely with that of the L-29 canal (0.2 ft to 0.4 ft lower). NESRS 2 and NESRS 3 are further away from the L-29 canal and their hydrographs track further below that of the L-29 canal (0.4 ft to 0.6 ft lower). Of the three NESRS sites, only NESRS 3 did not have a twelve month hydroperiod during the test. The NESRS 3 hydrograph clearly shows water levels below the ground surface for several periods during the test. Water depths in the slough at G-618, NESRS-2, and NESRS-3 ranged from 0.5 ft to 1.4 ft, 0.0 ft to 1.4 ft, and -1.6 ft to 1.0 ft, respectively.

Finally note that the water level in the L-29 canal was always 1.0 ft to 2.5 ft higher than the level in L-31N canal. Consequently, there was a relatively steep hydraulic gradient from the northeastern part of NESRS to the L-31N canal. This gradient, combined with the highly permeable Biscayne Aquifer, caused large quantities of subsurface water from this area of the slough to seep eastward into the L-31N canal (see Section VI.D.2.a.2)).

b. Water Levels in ENP west of L-67 Extension - Figure 23 presents water level hydrographs for the duration of the test at three sites in ENP west of L-67 Extension: NP-201, NP-202, and P-33. Also shown on Figure 23 are the water levels in the L-29 Canal (i.e., S-333 headwater), Tamiami Canal (i.e., S-12C tailwater), and the inflows to the area (flow through the S-12 structures and rainfall as recorded at NP-203).

Note the effect of flow through the S-12s on the water levels in the Tamiami canal; the timing of the peaks and the recessions in the water levels are similar to those of the discharge hydrograph. The flow also affects the water levels at the other sites, but the affect decreases with distance from L-29. Water levels decrease from L-29 to P-33, indicating a southward flow to SRS. The short term affect of rainfall is evidenced by the small sharp peaks in water levels that correspond to daily rainfall. The long term affect of rainfall on ENP water levels is evidenced by the rise in water levels even when there is no flow through the S-12s at the beginning of the 1985 wet season and during the 1987 wet season.

Water levels at NP-201, NP-202, and P-33 were consistently higher than their respective land elevations, indicating twelve month hydroperiods with water depths up to 0.8 ft during the dry seasons and up to 1.8 ft during the wet seasons.



June 1985 - October 1987

Figure 23. Water Levels and Rainfall in, and Inflow to, ENP West of L-67 Extension

c. Water Levels near L-67 Extension - Three areas near L-67 Extension were defined and are discussed in this subsection: (1) the northern end near L-29, (2) the central reach, located near the bend in L-67 Extension approximately five miles south of L-29, and (3) the southern end. Water level hydrographs for the 1986-87 hydrologic year are presented in Figures 24 and 25. Water levels during this hydrologic year of the test period were selected for clarity of presentation. Note that water levels on the east side of the levee did not always exceed those on the west side. The largest difference in water levels occurred at the northern end of the levee and decreased with distance from L-29.

1) Northern End - Data was not available for this part of L-67 Extension; however, canal water levels typically control adjacent water levels and probably do in this area as well. Water levels in NESRS near the north end of L-67 Extension were likely influenced by levels in the L-29 canal (S-333 tailwater, or S-334 headwater on Figure 22) east of L-67 Extension; while water levels in ENP near the north end of L-67 Extension west of the levee were likely influenced by the Tamiami Canal water level (S-12C tailwater on Figure 23). Since water levels in the Tamiami Canal west of L-67 Extension were always higher than those in the L-29 canal east of L-67 Extension, the water levels in the slough at the north end of L-67 Extension were likely higher on the west, with seepage under the levee from west to east.

2) Central Reach - Figure 24 shows water level hydrographs for four sites near the central part of L-67 Extension for the 1986-87 hydrologic year. Two sites were selected to represent water levels on the west side of the levee: (1) L-67XW, located in the L-67 Extension canal near S-347 (Figures 1 and 21), and (2) NP-202, located about 2.5 miles west of the levee. Water levels on the east side of the levee were also represented by two sites: (1) L-67XE, located in NESRS on the east side of L-67 Extension, opposite L-67XW, and (2) NESRS 1, located about 2.5 miles east of the levee in NESRS.

From Figure 24 it can be seen that water levels at L-67XW rose and fell with those at NP-202, but generally exceeded NP-202 levels by 0.1 ft to 0.3 ft. This indicates the possible existence of a southwestward component of flow from the levee to ENP. Water levels at L-67XE and NESRS 1 also rose and fell together with slightly higher levels at L-67XE. In general, water levels on the west side of the levee were higher than those on the east side during the wet season and were lower than those on the east side during the dry season. During the test, seepage under the levee in the central reach was generally from west to east during the wet seasons, and from east to west during the dry seasons.

Water levels at NP-202, NESRS 1, and L-67XE were always above ground level (Figure 24) during the test suggesting that twelve month hydroperiods can be expected in this part of the slough under the Rainfall Plan. Water depths at NP-202 ranged from 1.4 ft during the wet season to 0.4 ft during the dry season. At NESRS 1, water depths ranged from 1.3 ft during the wet season to 0.6 ft during the dry season.

3) Southern End - Figure 25 shows water level hydrographs for four sites near the southern end of L-67 Extension for the 1986-87 hydrologic year (Figure 21): (1) L-67XS, located at the southern end of the L-67 Extension canal, (2) P-33, located about 1.7 miles southwest of L-67XS, (3) NESRS-4, located 1.7 miles northeast of L-67XS, and (4) NESRS-5, located 0.9 miles northeast of L-67XS.

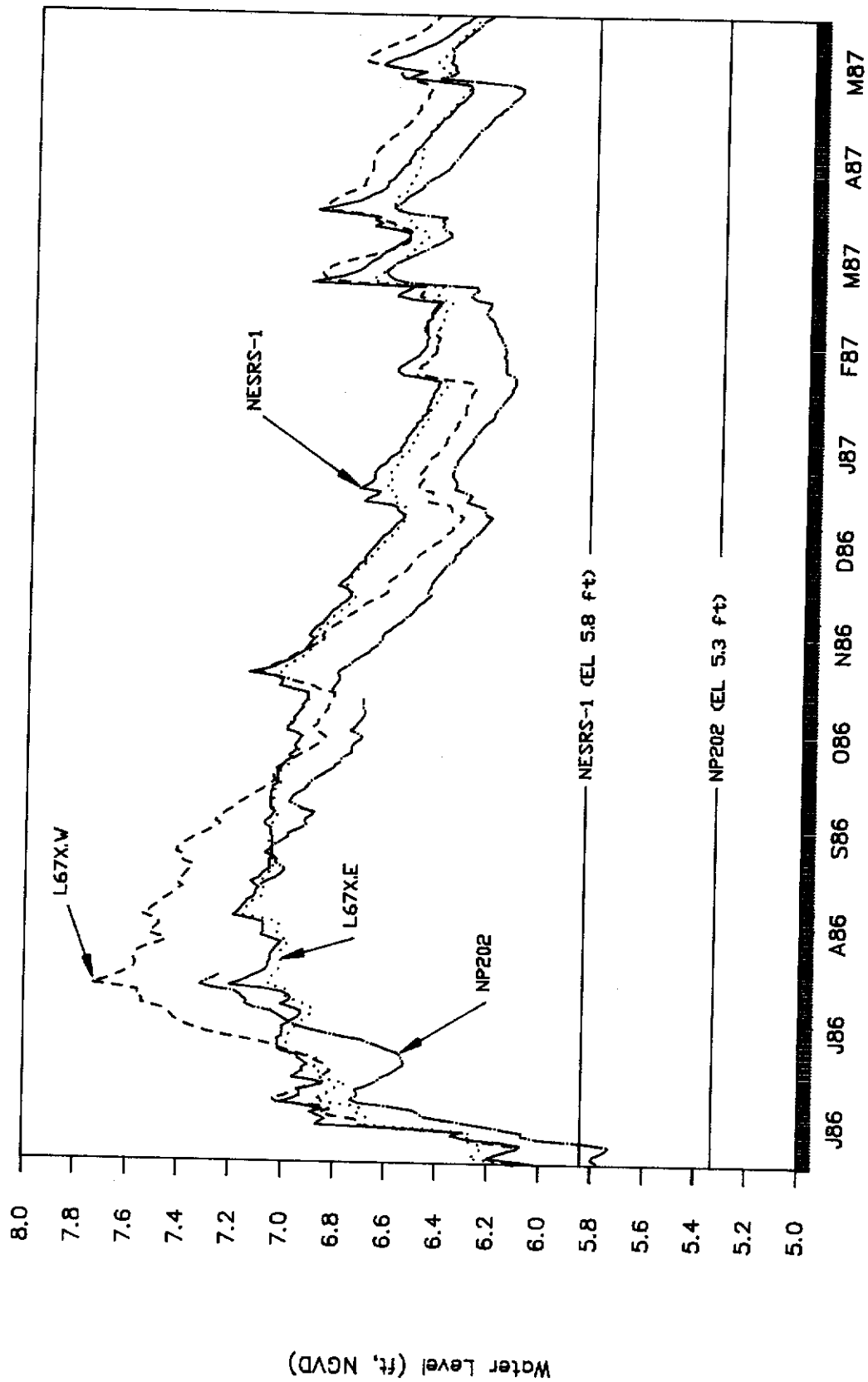


Figure 24. Water Levels Near the Central Reach of L-67 Extension

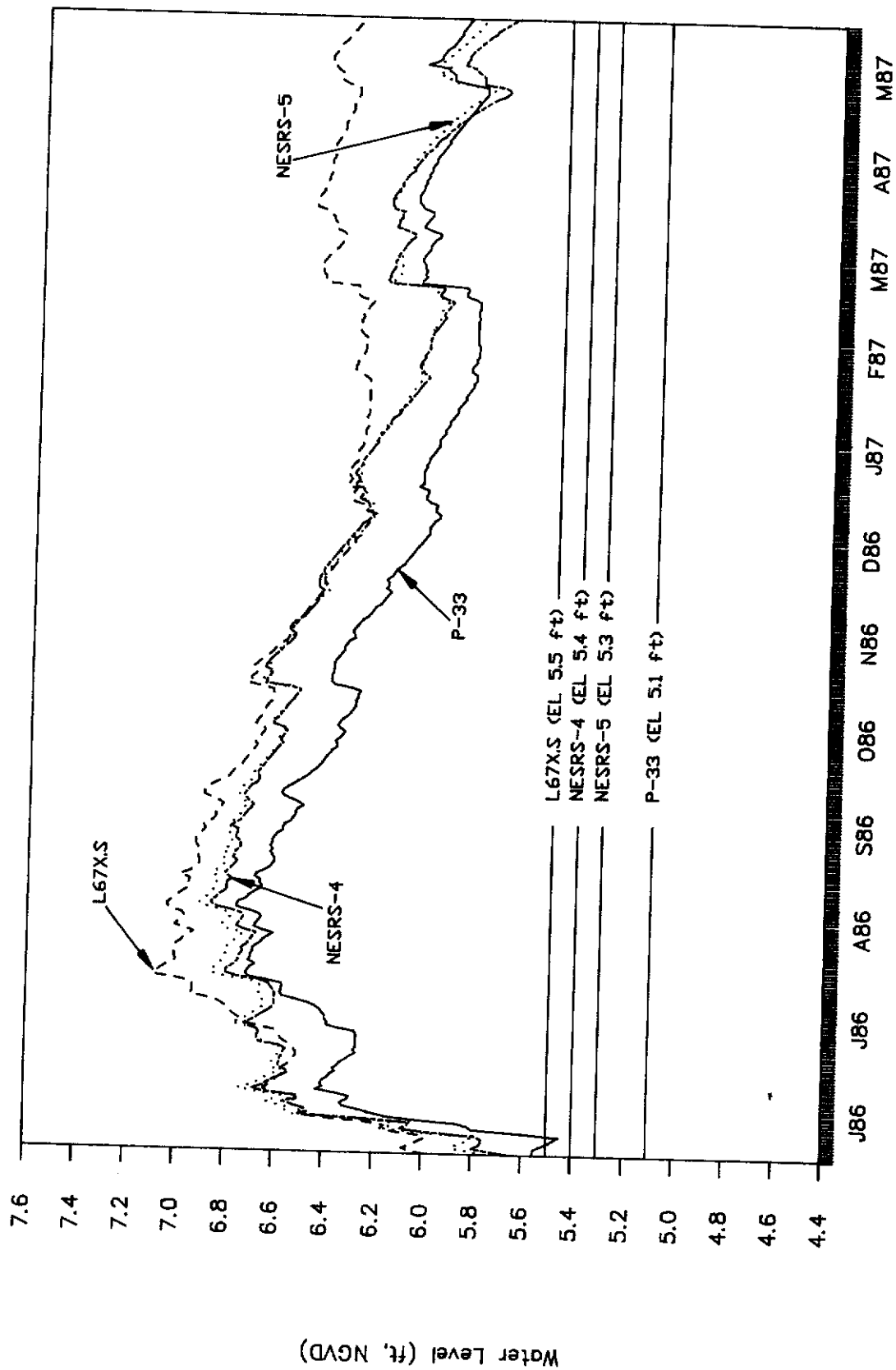


Figure 25. Water Levels Near the Southern End of L-67 Extension

From Figure 25 it can be seen that the water levels at L-67XS exceeded those at the other sites during most of the 1986-87 hydrologic year. In general, surface water at the end of L-67 Extension flowed both to the southwest into ENP and to the northeast into NESRS. During late June and early July, and during November and December, however, water levels at NESRS 4 and 5 were equal to or slightly exceeded those at L-67XS. Therefore, little, if any, flow from NESRS to ENP occurred. Certainly there was no flow from the end of L-67 Extension to NESRS during these times.

On three occasions during the test, water levels at NESRS 5 slightly exceeded levels at L-67XS: (1) a six month period from August, 1985 through January, 1986; (2) a 30-day period from late June to early July, 1986 (discussed above); and (3) a two week period during late December, 1987. During these times a slight gradient from northeast to southwest occurred, and flow was from NESRS to ENP. During most of the test however, the direction of flow in NESRS near the south end of L-67 Extension was from the southwest to the northeast.

Water levels at NESRS 4 and 5 closely tracked each other with slightly higher levels (average 0.04 ft) at NESRS 5 during most of the 1986-87 hydrologic year. Any flow occurring in this area usually would have been to the northeast. Since the gradient is small, flow rates would also have been small.

NESRS 4 and NESRS 5 were placed in the lowest part of NESRS on opposite sides of Grossman's Ridge prior to the test in order to provide data for assessing the effects of the ridge on flow (refer to Appendix B: Topographic and Soils Characteristics - NESRS Area). The top elevation of Grossman's Ridge decreases as it approaches the levee. The ridge becomes imperceptible about one mile east of the levee, near the location of NESRS 4 and 5. The ridge is not higher than about 5.6 ft near NESRS 4 and 5, and land elevations in this area are approximately 5.4 ft. Since the water elevations at NESRS 4 and 5 were nearly coincident (Figure 25) and ranged from 5.8 ft to 6.8 ft, the ridge probably does not significantly restrict flow from NESRS to ENP, or vice versa, near the south end of L-67 Extension. It is possible that the ridge may block flow further to the east where it reaches elevations of eight to nine feet (two to three feet above surrounding land). However, the ridge has many gaps and does not present a continuous impediment to flow.

Water levels at the four sites shown on Figure 29 were always above ground level during the test suggesting that twelve month hydroperiods can be expected in this part of the slough under the Rainfall Plan. Water depths at all four sites ranged from 0.5 ft to 1.5 ft.

2. Water Movement in NESRS - During the test, large amounts of water were introduced to NESRS and the operations of the canals surrounding the NESRS area were changed from pretest operations. In order to observe some of the effects of this flow and the canal operations on the water levels and flow directions in the slough, contour maps of water levels in the NESRS area were developed. These maps were constructed for near-extreme wet and dry conditions that occurred prior to and during the test. The near-extreme conditions set approximate limits on the ranges of conditions in the slough just prior to and during the test.

It must be stressed that the water level contour maps were drawn to illustrate general water levels and flow directions in the slough. Any direct comparisons between conditions prior to and during the test must be made with the understanding that the hydrologic conditions under which the water levels occurred were different

and that many factors, not only discharge to NESRS from S-333, influence water levels in the area. The water level stations used to create the water level maps are shown in Figure 21. Since the available water level information was limited, the contours can only be considered approximate.

Figures 26 and 27 show water levels in the NESRS area for near-extreme wet and dry conditions prior to the test⁹, and Figures 28 and 29 show water levels in the slough for near-extreme wet and dry conditions during the test. The water surface contours illustrate the direction and relative rate of water flow in the NESRS area. Water flow is perpendicular to the contours (i.e., lines of constant potential). Contours parallel to a canal or levee indicate flow to or from that canal or levee. Direction of flow is always from higher to lower water surface elevation. The spacing of the contours (in like flow regimes, i.e., surface water flow or groundwater flow) may be used to judge the relative rate of flow or seepage from one point to another. The closer the spacing the faster the rate of flow.

July 25, 1984 was chosen to represent a near-extreme wet condition in the slough prior to the two-year test. Near-maximum water levels were recorded at most of the monitoring sites on this day. S-333 did not discharge during the week prior to July 25. The only inflows to NESRS that week were from rainfall (2.83 inches), and seepage from ENP under L-67 Extension and from the L-29 canal under Tamiami Trail. Figure 26 shows that water surface contours were approximately parallel to L-67 Extension, to the L-29 canal, and to the L-31N canal. Note that high water levels occurred near the L-29 canal and L-67 Extension, and that low water levels occurred near the L-31N canal. In general then, water flow was from the northwest to southeast from L-67 Extension, and to a lesser extent from the L-29 canal, to the L-31N canal.

May 10, 1985 was chosen to represent a near-extreme dry condition in the slough prior to the test. Minimum water levels occurred at most of the monitoring sites on this day. S-333 was discharging water to the L-29 canal for delivery to the South Dade Conveyance System (SDCS). The average daily flow through both S-333 and S-334 for the week prior to May 10 was about 1300 cfs; therefore, no discharge was made to NESRS. The only inflows to the slough that week were from rainfall (0.23 inches) and seepage from ENP under L-67 Extension, and from the L-29 canal under Tamiami Trail. Figure 27 shows that, as in the wet condition, water level contours were approximately parallel to the L-29 canal. Unlike the wet condition, water level contours were approximately perpendicular to L-67 Extension and to the L-31N canal. High water levels occurred near the L-29 canal, and low water levels occurred to the south. In general, water flow was from the L-29 canal to the south in the direction of Taylor Slough and not to the L-31N canal. South of C-1W, the water surface sloped away from the L-31 canal; indicating that seepage was out of the canal to the surrounding areas.

⁹Hydrologic data for NESRS prior to the test is limited. The near-extreme conditions prior to the test were selected from the period of record 1984 to 1985.

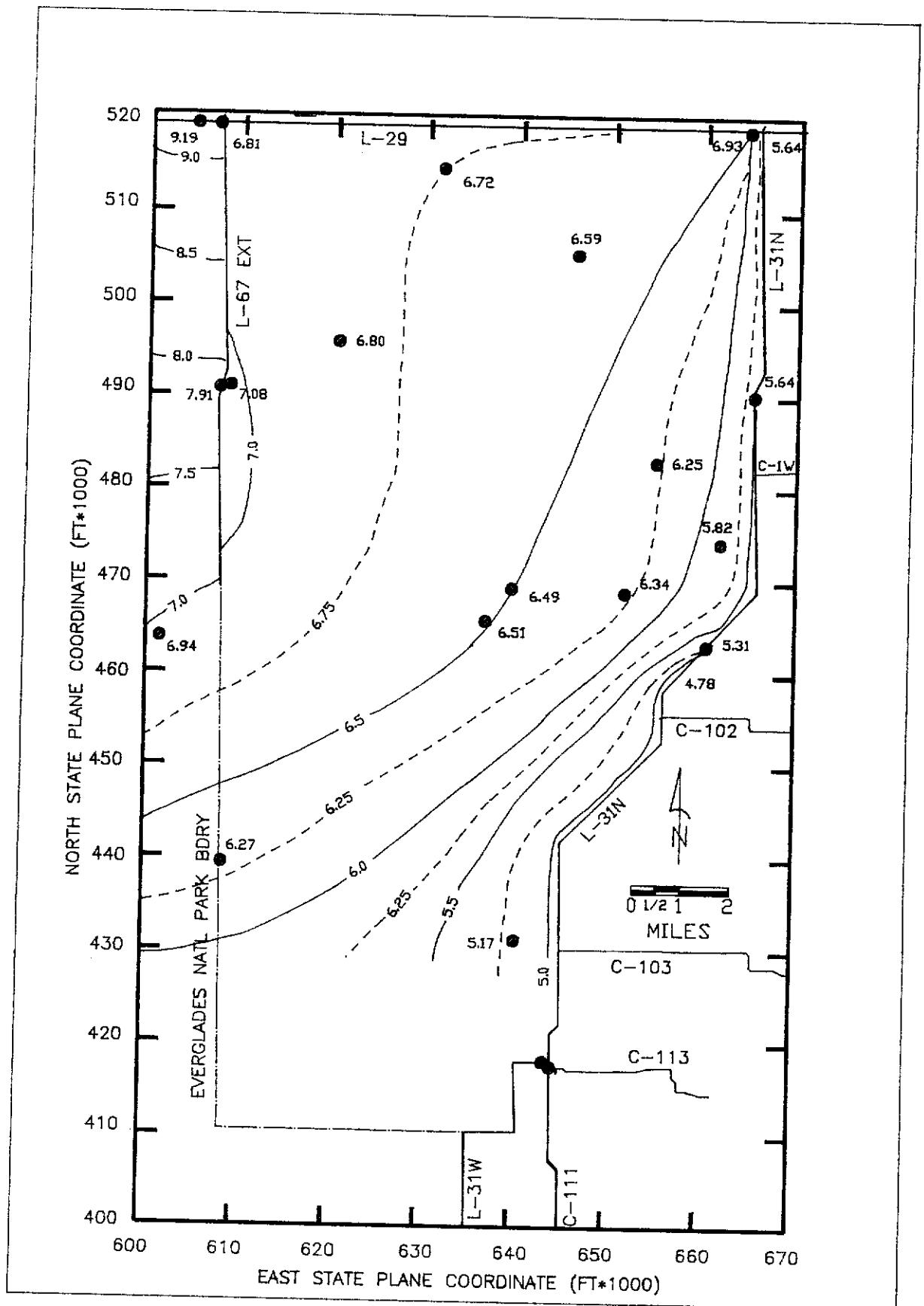


Figure 26. Water Levels in NESRS on July 25, 1984: Wet Condition Prior to the Two-Year Test

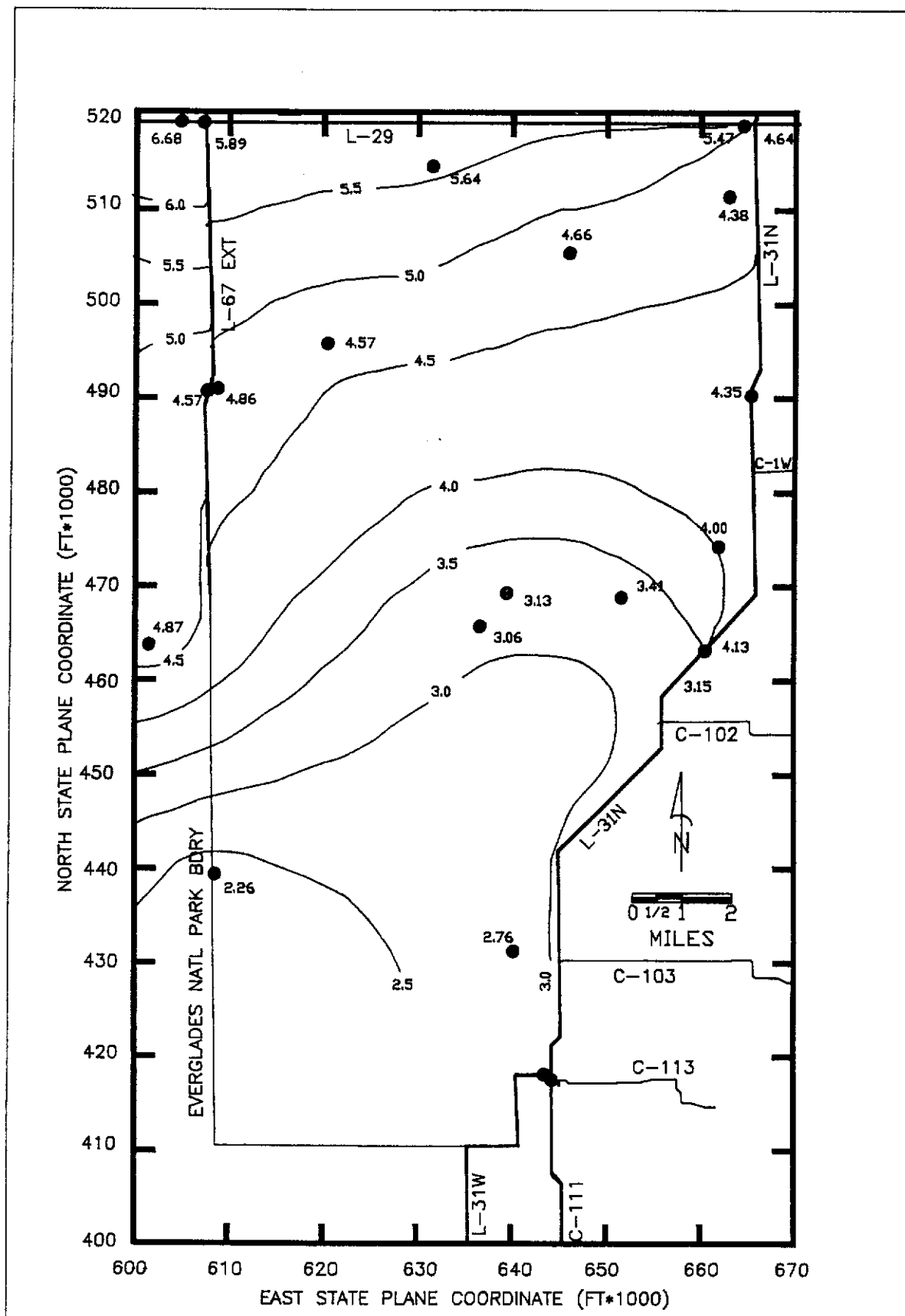


Figure 27. Water Levels in NESRS on May 10, 1985: Dry Condition Prior to the Two-Year Test

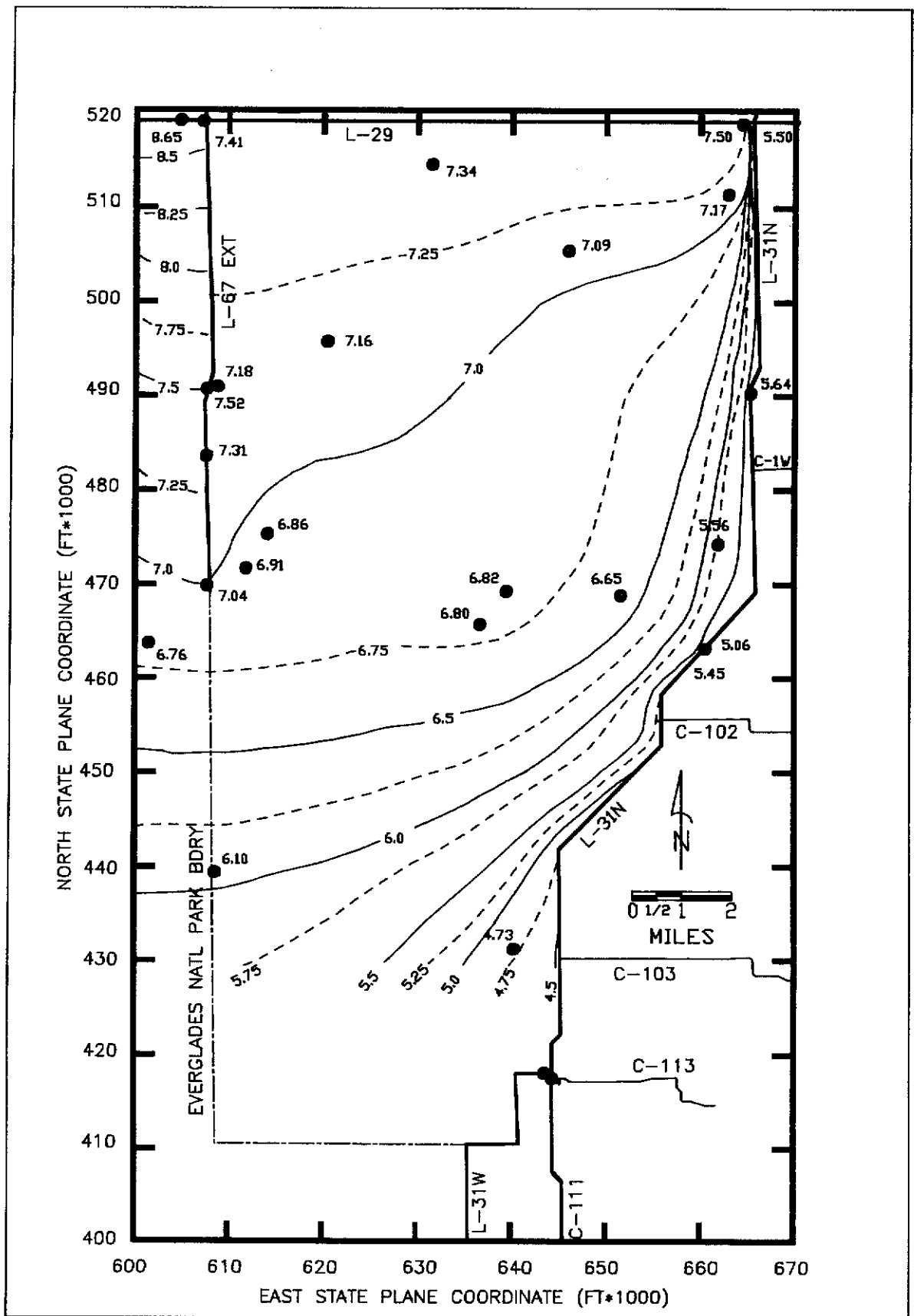


Figure 28. Water Levels in NESRS on August 19, 1986: Wet Condition During the Two-Year Test

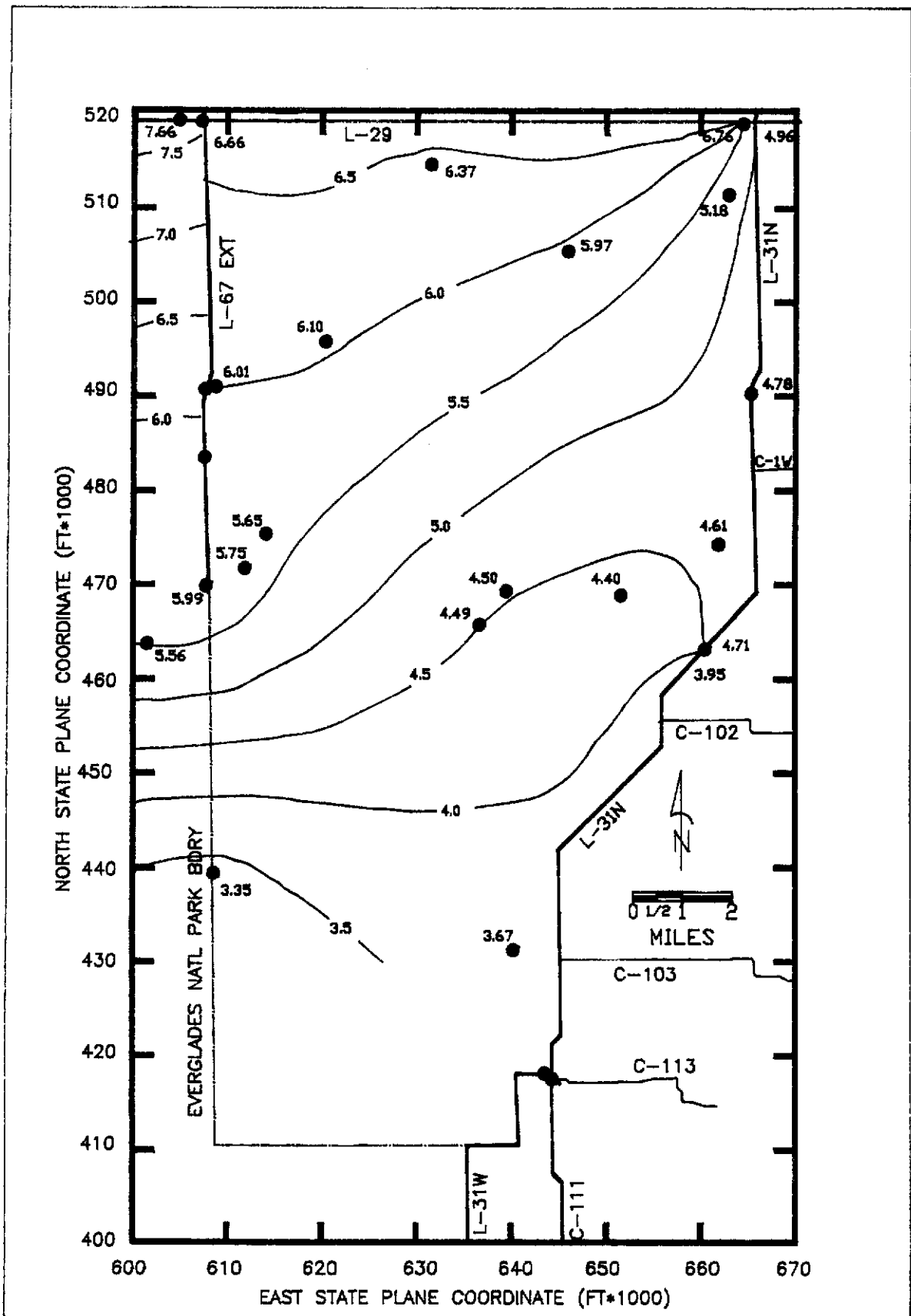


Figure 29. Water Levels in NESRS on June 1, 1986: Dry Condition During the Two-Year Test

August 19, 1986 was chosen to represent the extreme wet condition in the slough for the period of the test. Maximum water levels were recorded at most of the monitoring sites on this day. The average daily flow to NESRS by way of S-333 and the Tamiami Trail culverts for the week prior to August 19 was 854 cfs. Other inflows to NESRS that week were from rainfall (3.12 inches) and seepage from ENP under L-67 Extension. Figure 28 shows that water level contours were parallel to the L-29 canal and to the L-31N canal north of S-331. South of S-331 the contours began to intersect the L-31N canal. High water levels occurred near the L-29 canal. Low water levels occurred near the L-31N canal and to the south. In general, water flow was from the L-29 canal to the south in the direction of Taylor Slough and to the southeast to the L-31N canal. The effect that the L-31N canal has on lowering nearby water levels is evident by the relatively steep gradient near the canal.

June 1, 1986 was chosen to represent a near-extreme dry condition in the slough for the period of the test. Near-minimum water levels were recorded at most of the monitoring sites on this day. The average daily flow to NESRS by way of S-333 and the Tamiami Trail culverts for the week prior to June 1 was 94 cfs. Other inflows to NESRS were from rainfall (0.33 inches) and by seepage from ENP under L-67 Extension. Figure 29 shows that water level contours were parallel to the L-29 canal and to some extent the L-31N canal, but were approximately perpendicular to L-67 Extension. High water levels occurred near the L-29 canal, and low water levels occurred near the L-31N canal and to the south. In general, water flow was from the L-29 canal to the southeast to the L-31N canal and somewhat to the south in the direction of Taylor Slough. South of C-1W, the contours indicate that seepage was out of the L-31N canal to the surrounding areas.

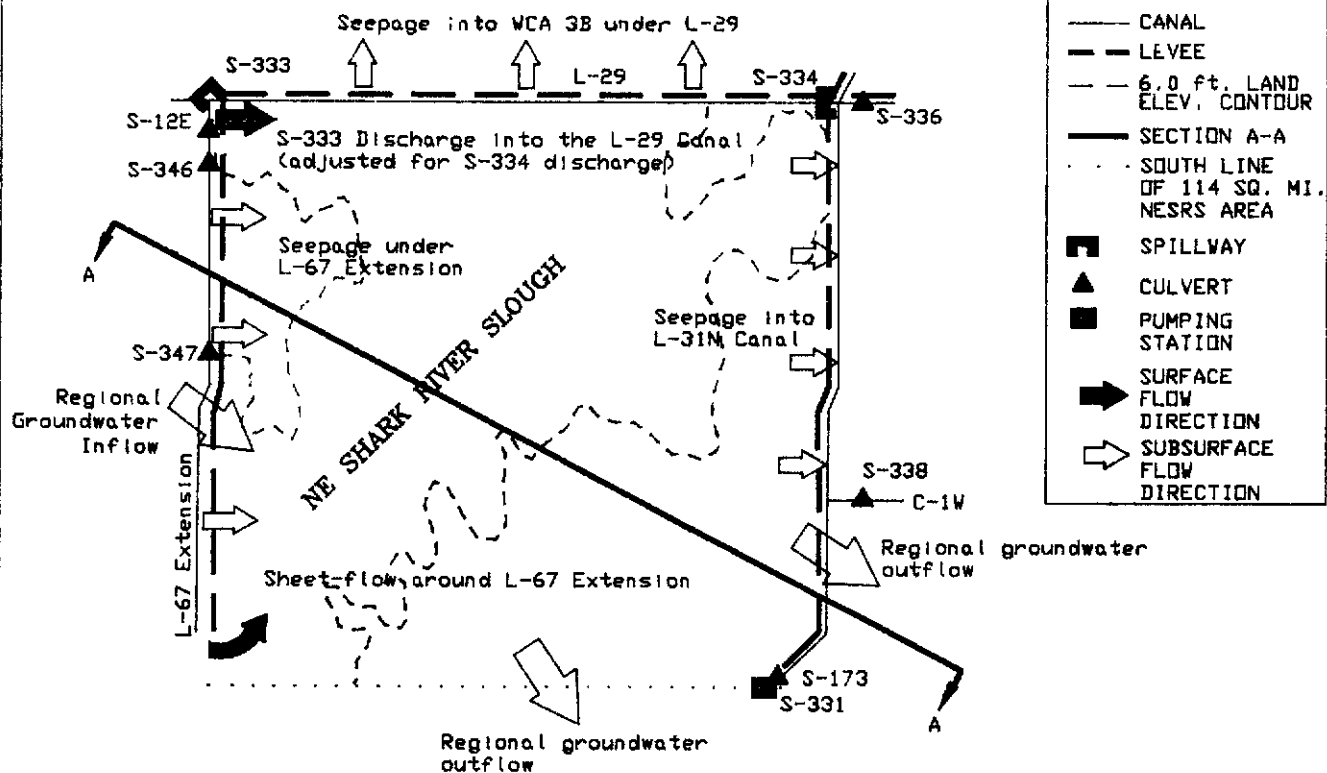
3. Water Budget - NESRS Area

To assess the relative importance of the hydrologic components affecting water levels and flows in NESRS, a water budget analysis was performed. Figure 30 shows the major components of the water budget for the NESRS area. The NESRS area was defined as the 114 square mile area bounded by L-67 Extension on the west, L-29 on the north, L-31N on the east, and a line from S-331 due west to the ENP boundary. Inflows to the area consisted of direct rainfall, S-333 discharge into the L-29 canal (adjusted for S-334 flow), seepage under L-67 Extension, surface flow around the end of L-67 Extension, and subsurface flow into the area from regional groundwater. Outflows from the area consisted of evapotranspiration, seepage into WCA 3B under L-29, seepage into the L-31N canal from the west, and regional groundwater flow out of the area. The difference between the total inflows and outflows equals the change in surface and groundwater storage:

$$\text{Inflows} - \text{Outflows} = \text{Change in Surface and Groundwater Storage} \quad (4)$$

The techniques that were used to estimate the components of the water budget are presented in Appendix C. Note that surface water flow around L-67 Extension (denoted SW) and the regional groundwater flows (denoted GW) could not be directly estimated. These were considered together as a composite term (SW&GW on Figure 31) and indirectly estimated by solving the mass balance equation (Equation 4) for the composite term.

NESRS AREA (not to scale)



SECTION A-A (not to scale)

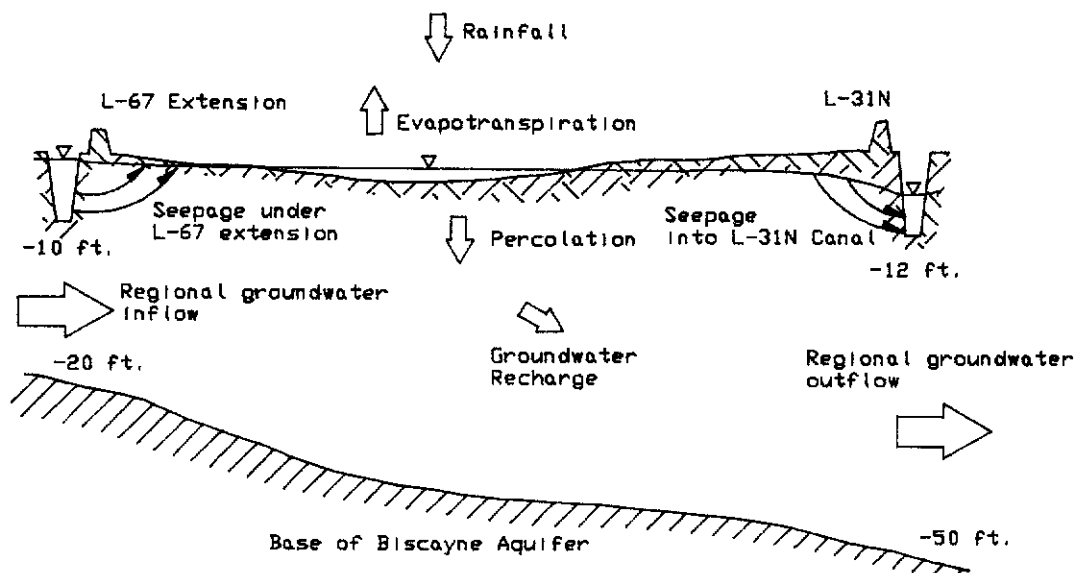


Figure 30. Water Budget Components for the NESRS Area

Figure 31 shows the relative importance of each component for the 1986 wet season, for the 1987 dry season, and for the 1986-87 hydrologic year. Rainfall and evapotranspiration were the largest inflow and outflow terms, respectively. S-333 discharge was the second largest inflow term, while seepage into the L-31N canal from the west was the second largest outflow term.

Inflows exceeded outflows during the wet season and produced an increase in the surface and groundwater storage of about 60,000 acre feet. During the dry season, outflows exceeded inflows and caused a decrease in surface and groundwater storage of about 60,000 acre feet. Over the hydrologic year, the volume of inflows was approximately equal to the volume of outflows. The change in storage was negligible.

Note that the composite term, SW&GW, was an outflow during both the 1986 wet season and the 1987 dry season. As discussed in Section VI.C.1.c.3), flow around the end of L-67 Extension was from west to east (ENP to NESRS) during most of the 1986-87 hydrologic year. There was little flow, if any, from NESRS to ENP during the 1986-87 hydrologic year; that is, the SW term was an inflow and not an outflow. Therefore the magnitude of the GW term must have exceeded that of the ENP term, such that the resulting composite term was an outflow. This also means that the magnitude of the GW term was larger than the algebraic sum of the SW&GW term.

D. Flood Risk to the Rocky Glades Area

The Rainfall Plan was implemented under the restrictions imposed by the test agreement. At issue was the possibility of an increased risk of flooding to the existing agricultural and residential (Rocky Glades) areas west of L-31N because of implementation of the Rainfall Plan. The purpose of the test agreement was to place limitations on the operation of S-333 and the L-31N canal to assure the residents of the Rocky Glades area that there would be no increase in their flood risk during the period of the test.

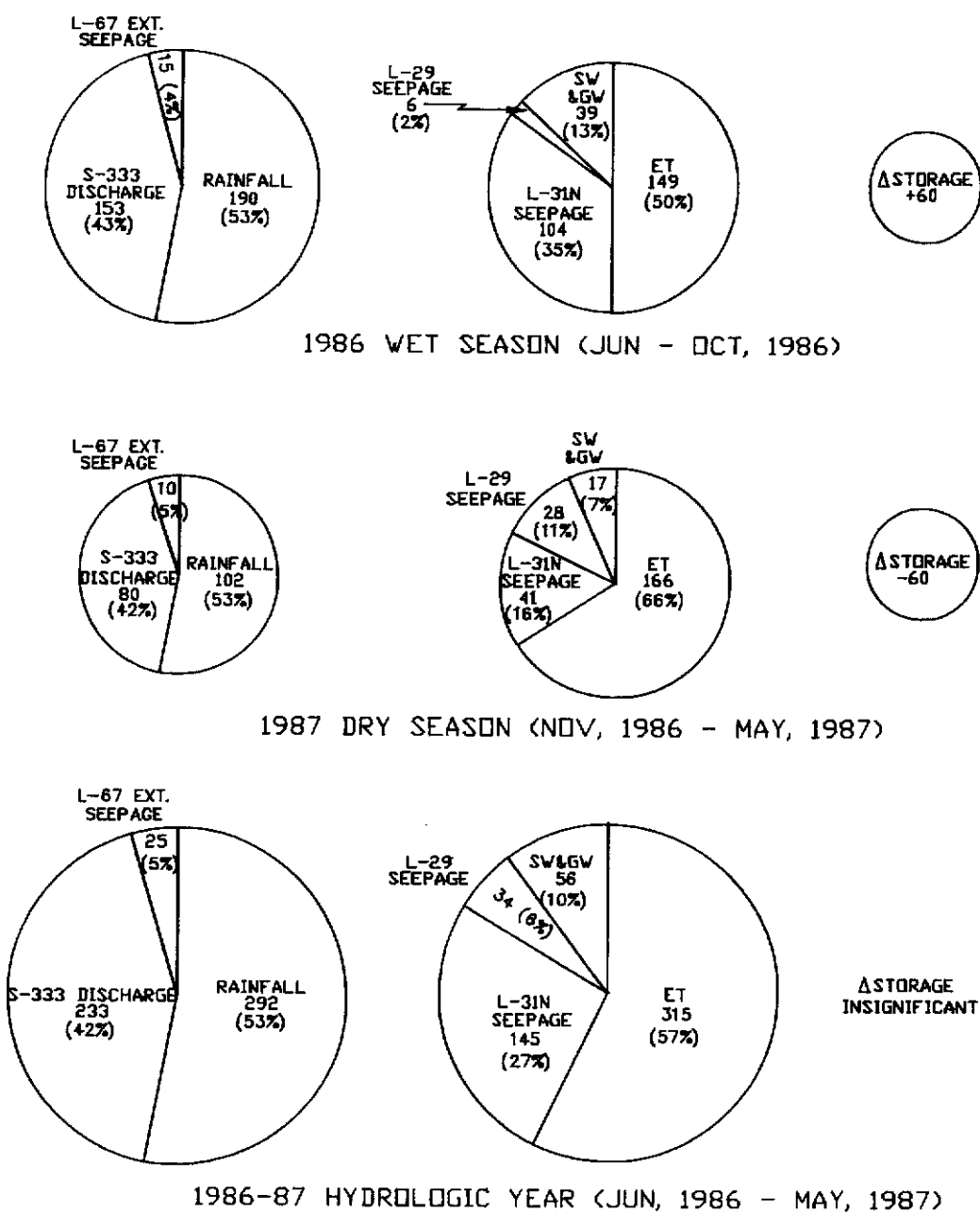
Two questions may be posed concerning the test agreement and flood risk to the Rocky Glades area:

1. Was the flood risk in the Rocky Glades area increased during the two year test in spite of the test agreement?
2. Did the District comply with the terms of the test agreement?

Before answering these questions, some background information is necessary to better understand the flood risk issue in the Rocky Glades and the analysis of that flood risk that follows. After the background section, the two questions will be addressed.

1. Background - In general, in south Florida, the flood risk to an area is related to the depth to groundwater, to the locally available surface storage (i.e., ponds, streams, canals), and to the facility for removal of water from the area. During a storm event the unsaturated soil above the water table acts as a reservoir to store rainfall. When that reservoir is filled, the excess water must be removed or flooding may result. The excess water may be either stored locally as surface water or exported from the area by canals or streams. In the case of the Rocky Glades area, the only significant surface storage is in SRS. The rate of removal of water from the area is related to the water level in the L-31N canal. The lower the canal level, the more quickly water is removed from the areas near the canal. It is clear that

$$\text{INFLOWS (AF x 1000)} - \text{OUTFLOWS (AF x 1000)} = \text{STORAGE CHANGE (AF x 1000)}$$



LEGEND

Rainfall: Direct Rainfall over 114 sq. mi. NESRS Area
 S-333 Discharge: S-333 Discharge into L-29 Canal (adjusted for S-334 Discharge)
 L-67 Ext. Seepage: Seepage under L-67 Extension
 SW&GW: Sheetflow around L-67 Extension and Net Regional Groundwater Flow
 ET: Evapotranspiration over 114 sq. mi. NESRS Area
 L-29 Seepage: Seepage into WCA3B under L-29
 L-31N Seepage: Seepage into L-31N Canal from the west
 Δ Storage: Change in Surface and Groundwater Storage

NOTE: Each pie has been drawn proportional to the flow volume it represents.

Figure 31. Water Budget for the NESRS Area (1986-87 Hydrologic Year)

anything which affects groundwater levels in the Rocky Glades area or the water level in the L-31N canal affects the flood risk to the area.

Even if surface flooding does not occur, high groundwater levels may have negative impacts (e.g., failure of septic systems). The residents of the Rocky Glades have indicated that the critical groundwater level is 6.0 feet at Angel's well. The farmers are concerned that reintroduction of flow into NESRS would raise groundwater levels south of the Rocky Glades area to levels that would damage their crops¹⁰.

The restrictions imposed by the test agreement on the implementation of the Rainfall Plan were predicated on two contentions:

1. That groundwater levels in the Rocky Glades area are directly related to flow into NESRS (i.e., discharge at S-333), and that a recession in high groundwater levels will occur if the discharge at S-333 is terminated.

2. That the L-31N canal has an impact on groundwater levels in the Rocky Glades and that lowering of L-31N canal levels will lower groundwater levels in the Rocky Glades.

The validity of these contentions is discussed below.

Of the wells in the vicinity of NESRS, G-3273 is closest to the slough itself (Figure 21). It was believed this well would respond first to any changes in discharge at S-333, and it was chosen to trigger closure of S-333. Angel's well, located on the western edge of the Rocky Glades area was chosen to represent water levels in the area and to trigger operational changes in the L-31N canal.

Note that the L-31N canal was not designed or built to provide flood protection or drainage. Originally it was the borrow for construction of L-31N with only the small culvert S-173 controlling water levels in the borrow canal. Later the canal was enlarged (completed January 1978) as part of the SDCS. S-331 was constructed (completed February 1983) in parallel to S-173, also as part of the SDCS, to achieve the larger design discharge of the SDCS. Enlargement of L-31N and construction of S-331 were not intended to provide additional flood protection, but rather to facilitate water supply in that area.

S-173 and S-331 are on the drainage divide between the C-1 and C-111 basins¹¹. During times of significant rainfall, S-173 is closed and the pumps at S-331 are not

¹⁰This information was included in the "Response to Technical Report" included as an appendix to the District's Technical Publication 85-3, A Wet Season Field Test of Experimental Water Deliveries to Northeast Shark River Slough.

¹¹These basins are defined by the SFWMD in An Atlas of Eastern Dade County Surface Water Management Basins (Cooper and Lane, 1987).

operated. Closing these structures protects downstream areas from flooding. As water levels recede downstream and the danger of flooding passes, S-173 is opened or S-331 is operated as necessary to lower the upstream water levels in the L-31N canal. If the potential for flooding downstream of S-331 is high, the District removes the earthen plug adjacent to S-197 to increase the recession of flood waters. The COE is responsible for removing the plug, but the District has always done the actual removal and replacement.

The operational water levels for the reach of the L-31N canal south of S-331 were lower during the test than the design water levels for the canal. The canal was designed to operate under normal conditions at 5.5 feet and under flooding conditions at 6.3 feet at S-176. Compare these values to the operational level (4.3 ft) used during the test. The reach of the L-31N canal north of S-331 was designed to operate at a normal water level of 5.0 feet. Before construction of S-331, however, water could be released from that reach of the canal only when the water level exceeded the level held in the reach downstream of S-331, or when capacity was available in C-1W. Wet season water levels above 6.0 ft were common. During the test, the reach of L-31N north of S-331 was maintained at 4.5 ft if the water level at Angel's well exceeded 6.0 feet (refer to Section IV).

2. Did the Flood Risk to the Rocky Glades Area Increase During the Test? - Several factors are believed to have the potential to impact (1) the groundwater levels in the Rocky Glades and (2) water levels in the L-31N canal. Of naturally occurring factors, rainfall and evaporation are important. Of man-regulated factors, S-331 discharge is the most important. Short term and long term effects of these factors on water levels in the Rocky Glades and in the L-31N canal were examined.

In order to determine the possible effects of reintroduction of flow into NESRS on the flood risk to the Rocky Glades, it was necessary to account for the variable effects of rainfall and evaporation on groundwater and canal water levels. For comparison of water level conditions during the test to water level conditions prior to the test, times were selected prior to and during the test when rainfall and evaporation were similar. It was assumed that evaporation for any two periods would be similar if the rainfall amount and distribution for the periods were similar.

The time series plot of monthly rainfall for the NESRS area (Figure 32) indicates that two of the hydrologic years prior to the test (1978-79 and 1983-84) were similar to one another and to one year during the test (1985-86). Note that the annual, dry season, and wet season rainfall amounts are nearly equal (Table 8). Also note the similar distribution of rainfall during each year. To further demonstrate the similarity of the rainfall distributions, cumulative distributions for each year were plotted (Figure 33).

a. Effects on Groundwater Levels - There were three factors that may have had an effect on the groundwater levels in the Rocky Glades area: (1) rainfall and evaporation, (2) the L-31N water level, (3) and S-333 discharge. Several analyses were done to illustrate the relative importance of these factors. These analyses indicated that, in the short term, groundwater levels in the entire area were influenced most by rainfall. Groundwater levels near the L-31N canal were influenced by canal water levels. Areas near to the canal were affected more than areas farther from the canal. S-333 discharge did not affect groundwater levels in the short term. In the long term it is clear that subsurface flow from NESRS to the L-31N

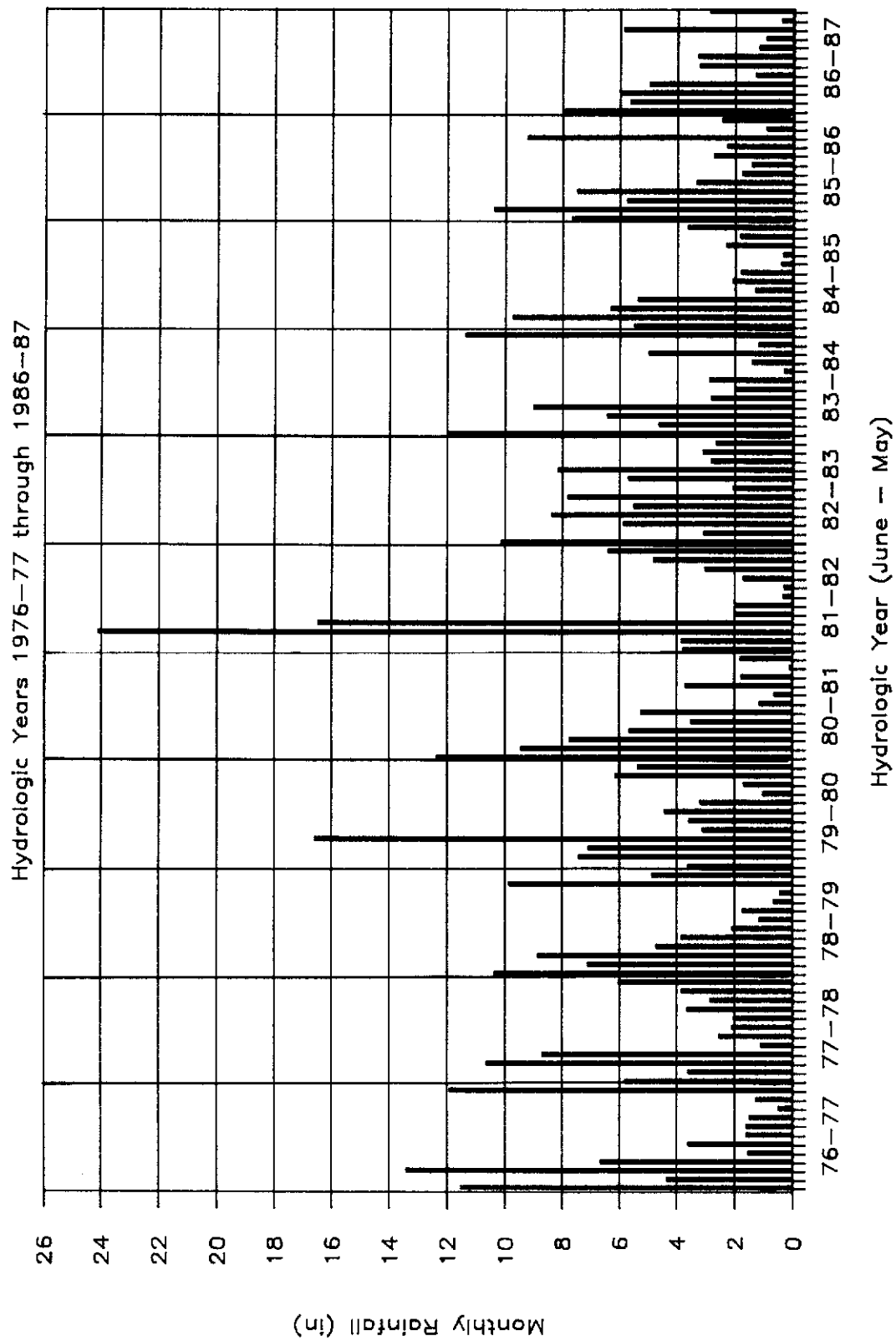


Figure 32. NESRS Monthly Rainfall

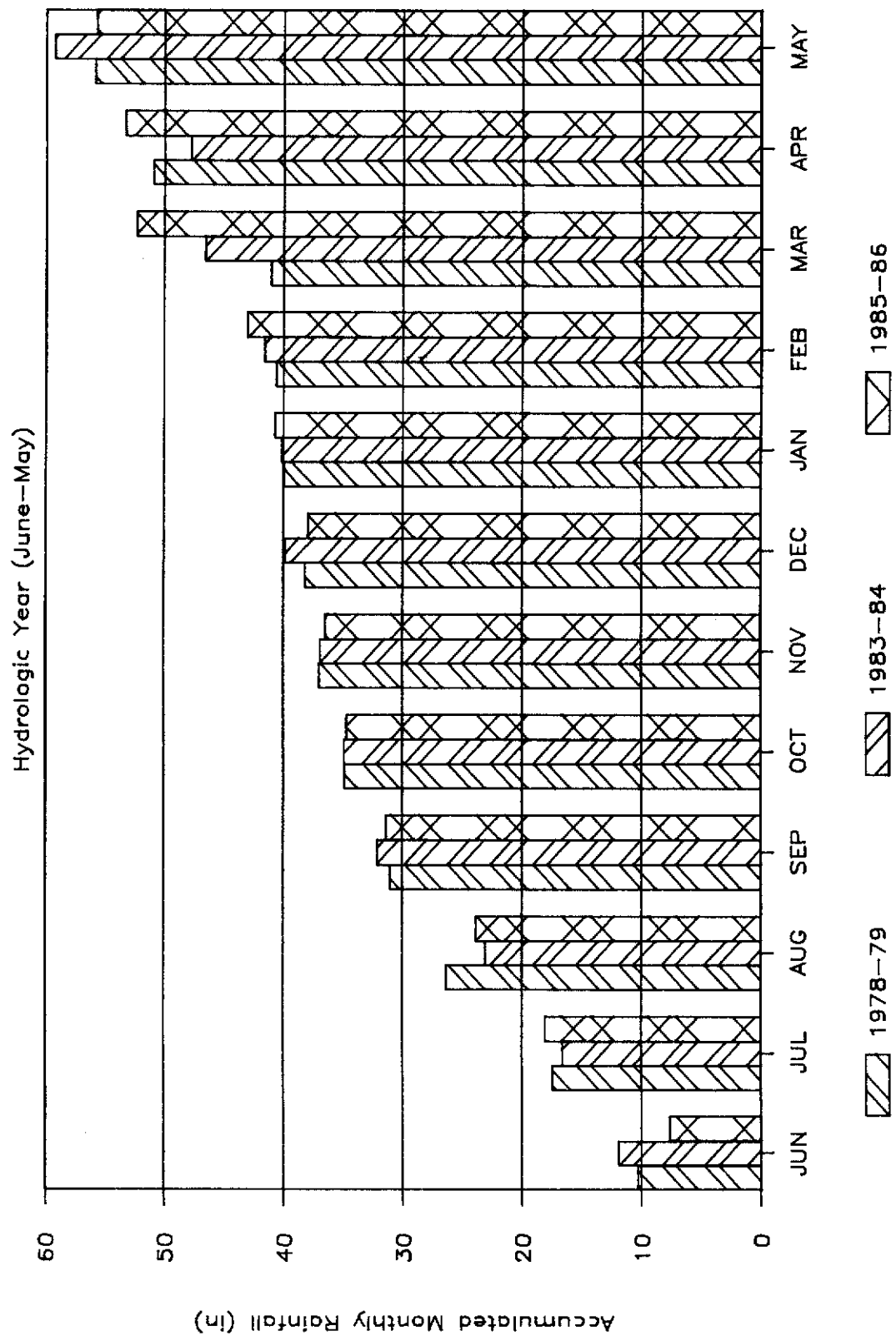


Figure 33. Cumulative Rainfall Distributions for the NESRS Area

Table 8. Wet Season, Dry Season and Annual Rainfall for the NESRS Area¹

Hydrologic Year ²	Wet Season Rainfall (inches) (June-Oct)	Dry Season Rainfall (inches) (Nov-May)	Annual Total Rainfall (inches) (June-May)
1976-77	37.6	22.0	59.6
1977-78	29.9	23.2	53.1
1978-79	35.0	20.9	55.9
1979-80	38.0	25.5	63.5
1980-81	38.8	14.5	53.3
1981-82	50.3	18.7	69.0
1982-83	33.1	32.4	65.5
1983-84	35.0	24.3	59.3
1984-85	28.4	12.5	40.9
1985-86	34.8	21.0	55.8
1986-87	25.9	18.0	43.9

¹Rainfall totals are Thiessen weighted averages of the rainfall reported at Homestead Experiment Station, Tamiami Canal at 40 Mile Bend, and Tamiami Trail at Trail Glades Ranges. NESRS area defined as the 114 square mile area bounded by L-67 Ext, L-29, L-31N to S-331, and a line from S-331 due west to the ENP boundary.

²The 12 month period beginning in June and ending in May.

canal increased during the test; however, operation of the L-31N canal under the terms of the test agreement compensated for any long term increase in groundwater levels due to the increase in groundwater flow to the canal.

1) Short Term Effects - Short term effects were illustrated by comparing time series plots of rainfall, L-31N canal levels, and S-333 discharge with time series plots of groundwater levels in the Rocky Glades (Figures 34, 35, and 36, respectively). Groundwater levels in the Rocky Glades area were represented by the water levels in four wells, G-1502, G-3273, Angel's well, and G-596 (located on Figure 11). For clarity in presentation, a short time series was selected (a period of six months at the beginning of the test -July 1985 through December 1985). G-1502 and G-3273 are located west of the Rocky Glades and are nearest to SRS of the four wells. G-596 is in the Rocky Glades residential area and is nearest to the L-31N canal. Angel's well is located on the western edge of the Rocky Glades area between G-1502 and

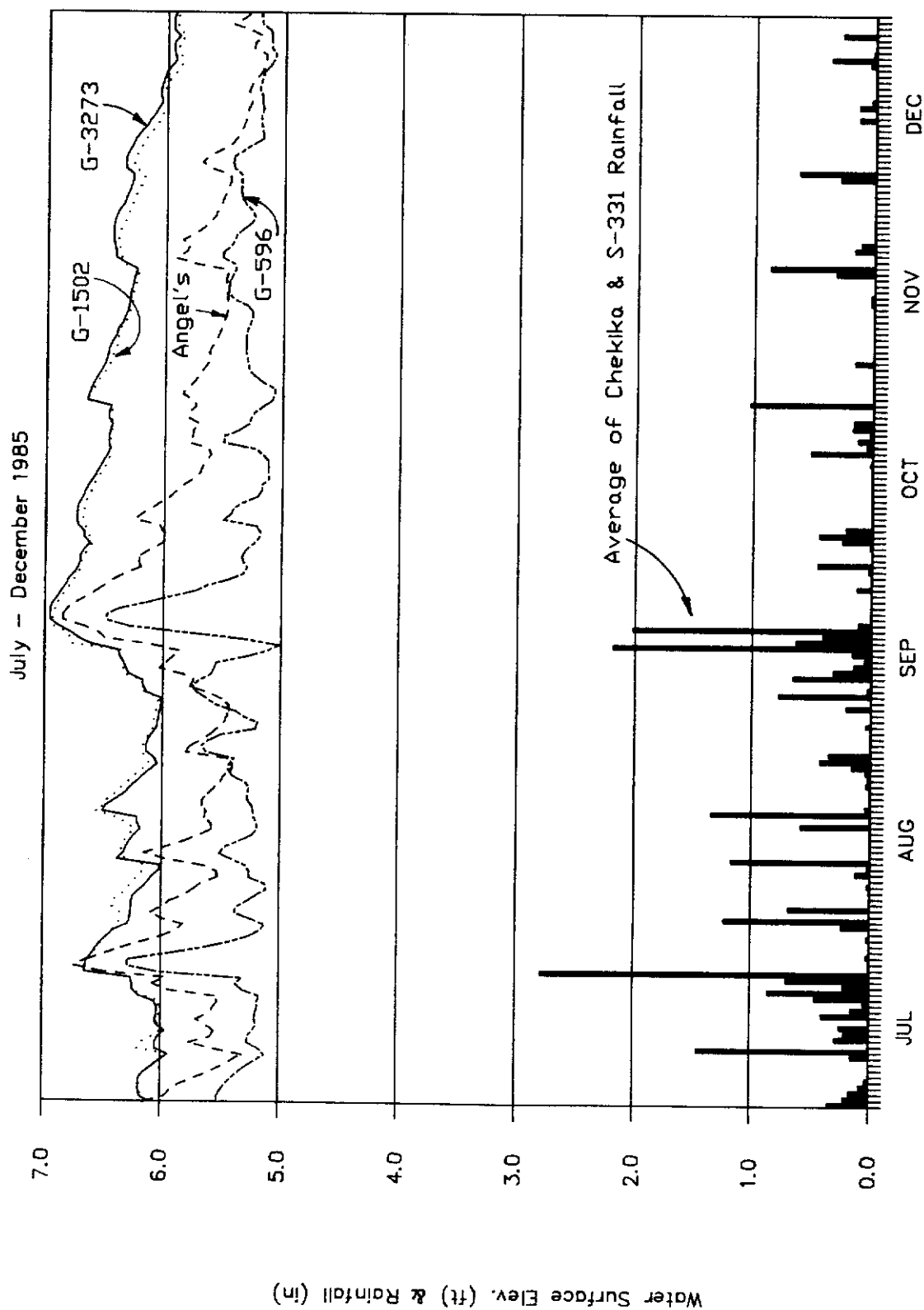


Figure 34. Effect of Rainfall on Rocky Glades Groundwater Levels

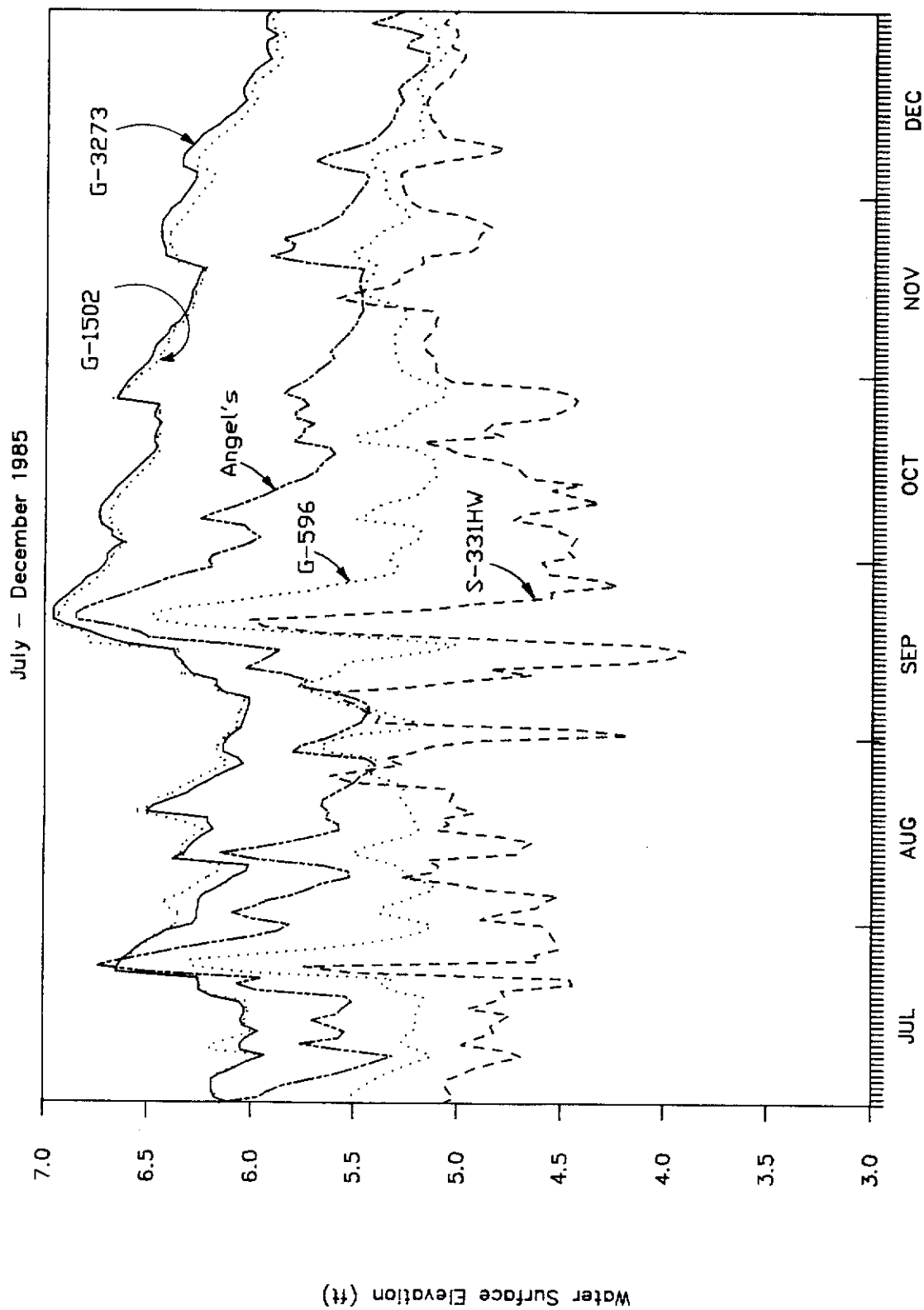


Figure 35. Effect of the L-31N Canal on Rocky Glades Groundwater Levels

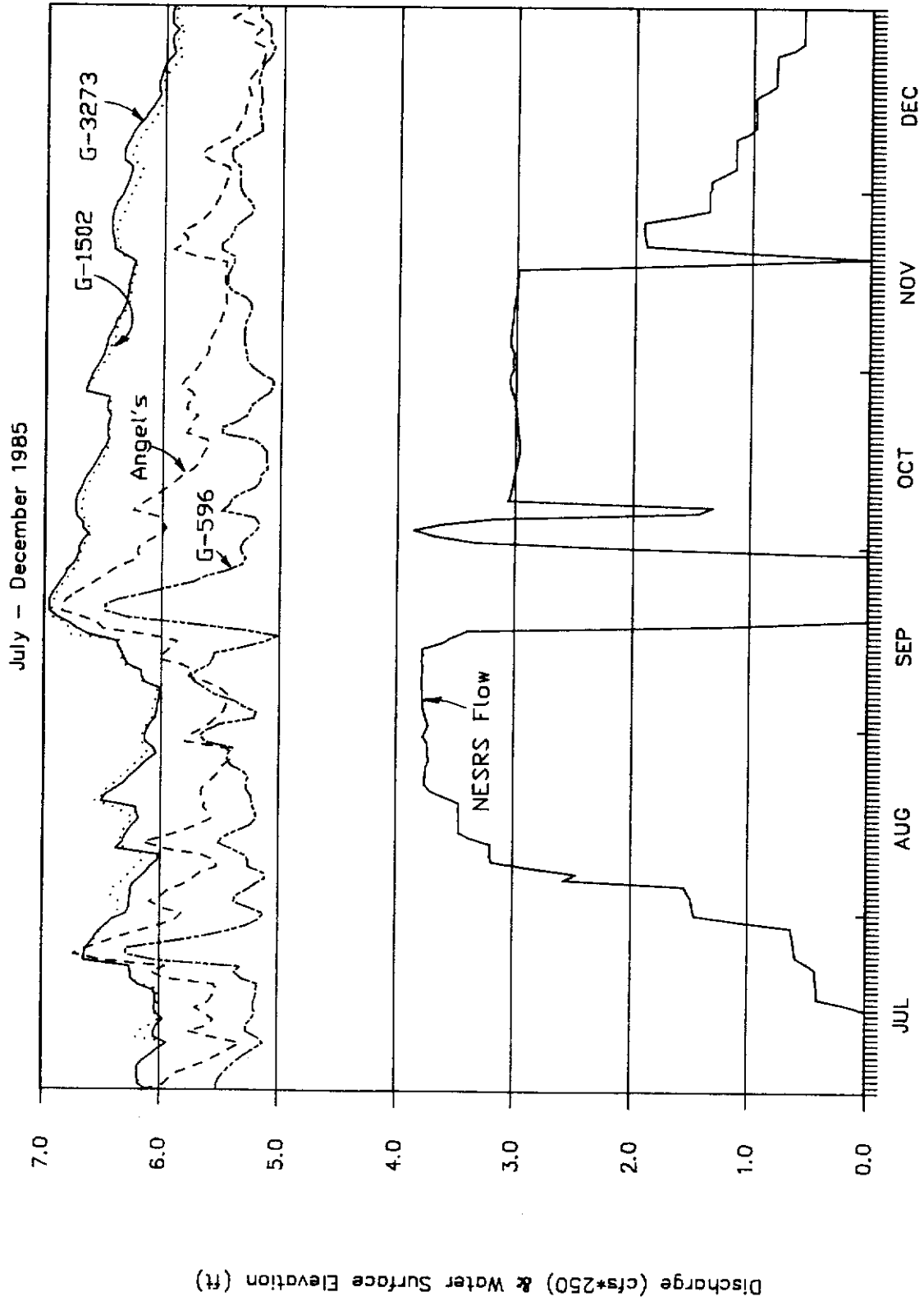


Figure 36. Effect of NESRS Discharge on Rocky Glades Groundwater Levels

G-596. Rainfall is reported as the average of the rainfall at the gage at Chekika and the rainfall at the gage at S-331. The water level in the L-31N canal is reported for the gage just upstream of S-331.

The first thing to note about any of the plots is the apparently good correlation between the water levels in the four wells. All possible cross-correlations between the four wells were calculated for lags up to 24 days to determine when the best correlations occurred. The best correlation in four of the six cases was for zero lag and was at least 90 percent (Figure 37). The best correlations between G-1502 and G-596, and G-3273 and G-596 were about 85 percent and occurred for lags of one day in each case. The correlations were, however, only slightly less than 85 percent for the zero lags. The fact that the best correlations occurred at or near zero lag indicates that all wells were responding in like fashion and at the same time to influencing factors. Rainfall is the only factor that is close enough to being uniformly spatially distributed to cause simultaneous response in widely separated wells. Any response in water levels to S-333 discharge likely would be lagged from G-3273 to G-596. Response of groundwater levels in the two wells to L-31N canal levels likely would also be lagged.

The water levels in the four wells showed very strong positive response to rainfall (Figure 34). Note the nearly one to one correspondence between rainfall occurrence and peaks in the water level hydrographs for the wells. There is at most a one day lag in response of water levels to rainfall. The magnitudes of the responses are variable, however, and are a function of antecedent rainfall and water levels in the wells.

The L-31N canal reduces nearby groundwater levels and increases the rate at which water is removed from the adjacent area after a rain event (Figure 35). This is evident by comparing the water level hydrographs of the four wells. Note that the closer a well is to the L-31N canal, the lower is the water level and the faster is the recession rate after a peak in water levels. Also note that for Angel's well and G-596, the recessions in the hydrograph of the L-31N canal level usually precedes similar recessions in well water level. Finally note that twice (once in late August and once in mid-November) that the water level in the canal rose sharply without a corresponding rainfall occurrence. In both cases, the water level in G-596 rose shortly after (also without corresponding rainfall) but not as sharply or as high, and the recession rate at Angel's well decreased. The hydrographs of the water level for G-3273 and G-1502 did not increase nor did the recession rates decrease for either period. This suggests that the canal not only reduces nearby groundwater levels, but may raise them as well if canal levels exceed groundwater levels.

None of the hydrographs of water levels in the four wells showed a response to the discharge at S-333 (Figure 36). Note that the large, rapid increase in discharge in August does not correspond to a similar increase in water levels in the wells at any time. Nor does the closure of S-333 in September correspond to a drop in water levels. It was expected that any increase in groundwater levels would be lagged from S-333 discharge and the effects moderated because of the distance involved and the very high resistance to flow in the Everglades. Neither a lagged effect nor gradual increases and decreases in water levels corresponding in pattern to the S-333 discharge were observed.

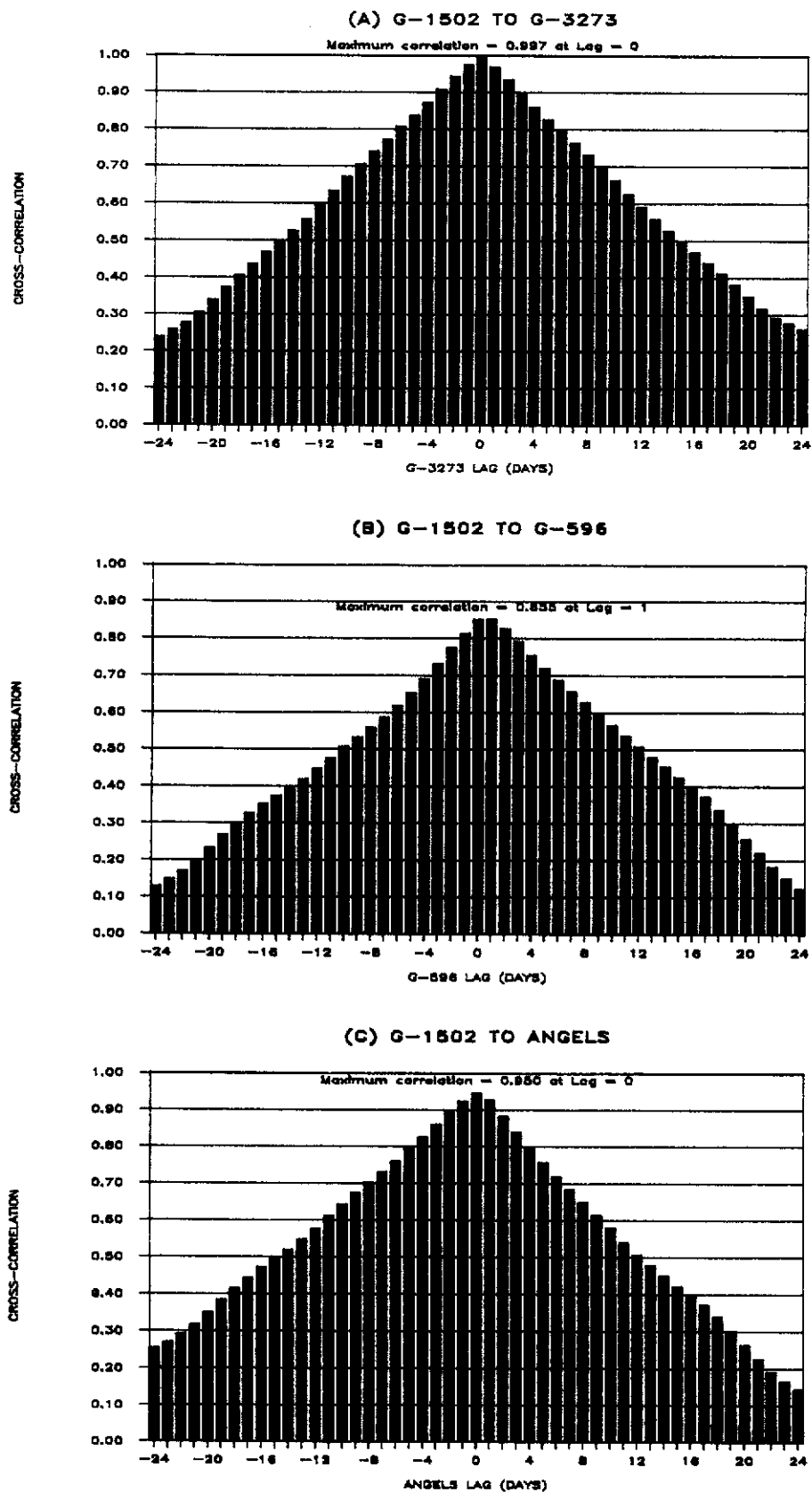


Figure 37. Cross-correlations Between G-596, G-1502, G-3273, and Angel's Well for the Period June, 1985 through May, 1986

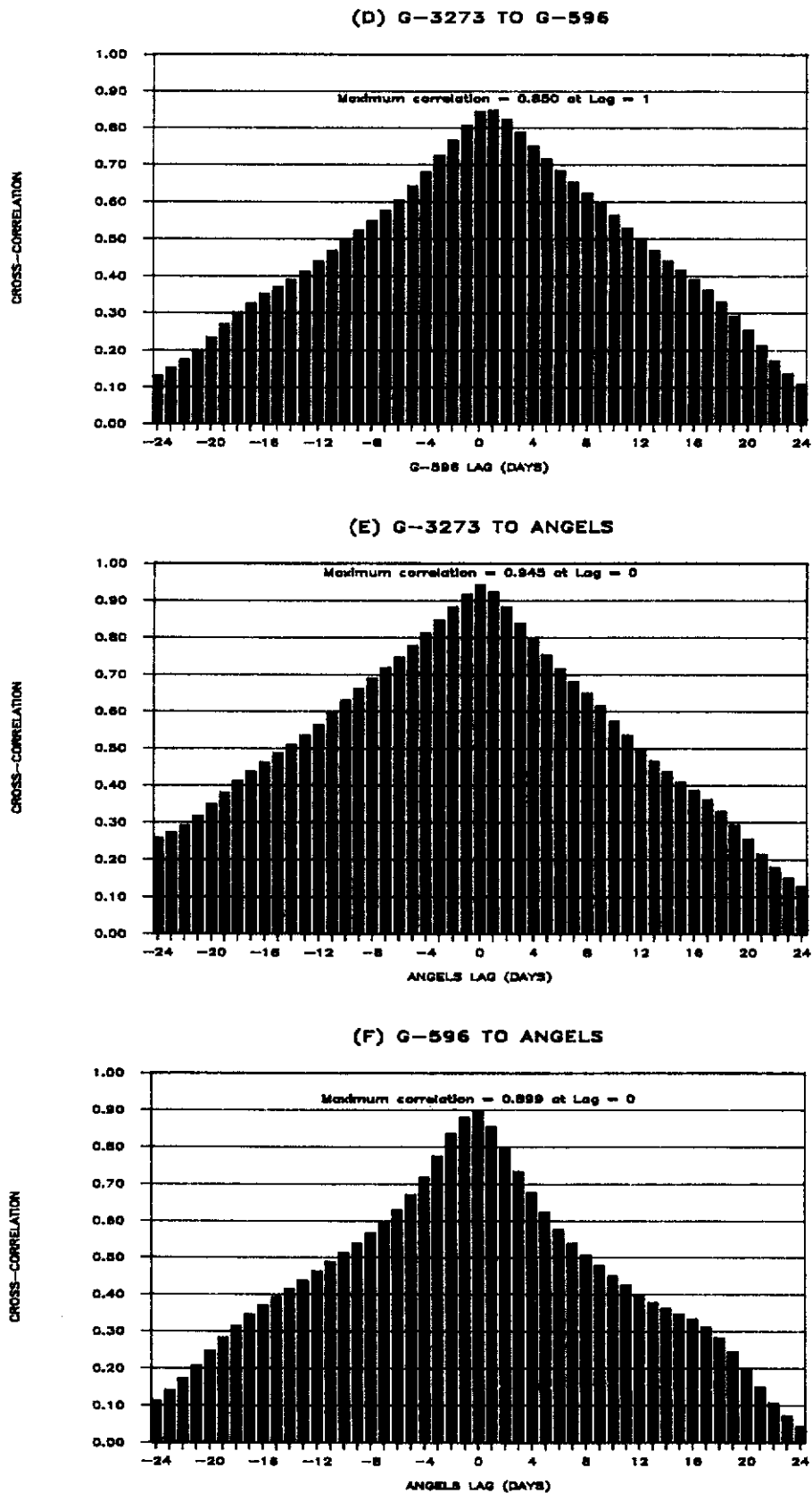


Figure 37. Cross-correlations Between G-596, G-1502, G-3273, and Angel's Well for the Period June, 1985 through May, 1986

Although S-333 discharge did not have readily observable and immediate impacts on water levels in the Rocky Glades area, it was reasonable to assume that long term effects may exist. Recall from the maps of water levels in the NESRS area prior to and during the test (Figures 26 through 29) that introduction of water into NESRS apparently increased water levels in the slough and that the direction of water flow was from the slough to the L-31N canal. Note also that the gradient of water levels from the slough to the L-31N canal increased from pretest to test conditions, suggesting that the amount of water flowing to the L-31N canal and the Rocky Glades area was increased because of the Rainfall Plan. The increased flow to the L-31N canal has the potential, in the long term, to increase groundwater levels in the Rocky Glades area.

2) Long Term Effects - Long term effects were illustrated by comparing percent-exceedance curves of groundwater levels for years prior to and during the test. On these plots, groundwater levels at G-1502 (Figure 38) and G-596 (Figure 39)¹² were plotted against the percentage of the time each water level was exceeded during a given hydrologic year. Of particular interest was the percentage of time in each hydrologic year that high groundwater levels were experienced. The hydrologic years 1978-79, 1983-84 (both pretest), and 1985-86 (test) were compared because of their similarities in amount and distribution of rainfall.

The three percent-exceedance curves plotted for groundwater levels at G-1502 are not markedly different from one another, although small differences occurred at the extreme water levels. High water levels were lower in 1985-86 than they were in 1978-79 and 1983-84, and low water levels were higher in 1985-86 than they were in 1978-79 and 1983-84. This may indicate that groundwater levels were somewhat moderated at G-1502 during the test.

For the three percent-exceedance curves for groundwater levels at G-596, however, the curve for 1985-86 differs from the curves for 1978-79 and 1983-84. Water levels at G-596 were moderated during the test as compared to pretest conditions. The proximity of the well to the L-31N canal suggests that the canal is the moderating influence on the groundwater levels at G-596. Although a moderation of groundwater levels may have occurred at G-1502 due to the L-31N canal, the distance of the well from the L-31N canal has minimized that effect.

The critical issue that concerns the residents is how frequently high groundwater levels occur in the Rocky Glades area and whether this frequency has increased because of the reintroduction of flow into NESRS. Recall that the farmers have indicated that the critical water level at Angel's well is 6.0 feet. Data is not available for Angel's well prior to the test, so a direct comparison of the percentage of time that the critical groundwater elevation was exceeded before and during the test is not possible. Regression equations relating groundwater levels at Angel's well

¹²Percent-exceedance curves for G-3273 and Angel's well could not be plotted because insufficient data was available for these wells prior to the test. G-596 was selected because it lies within the Rocky Glades area, and G-1502 was selected because it is near G-3273 and because its water level is highly correlated to the water level at G-3273.

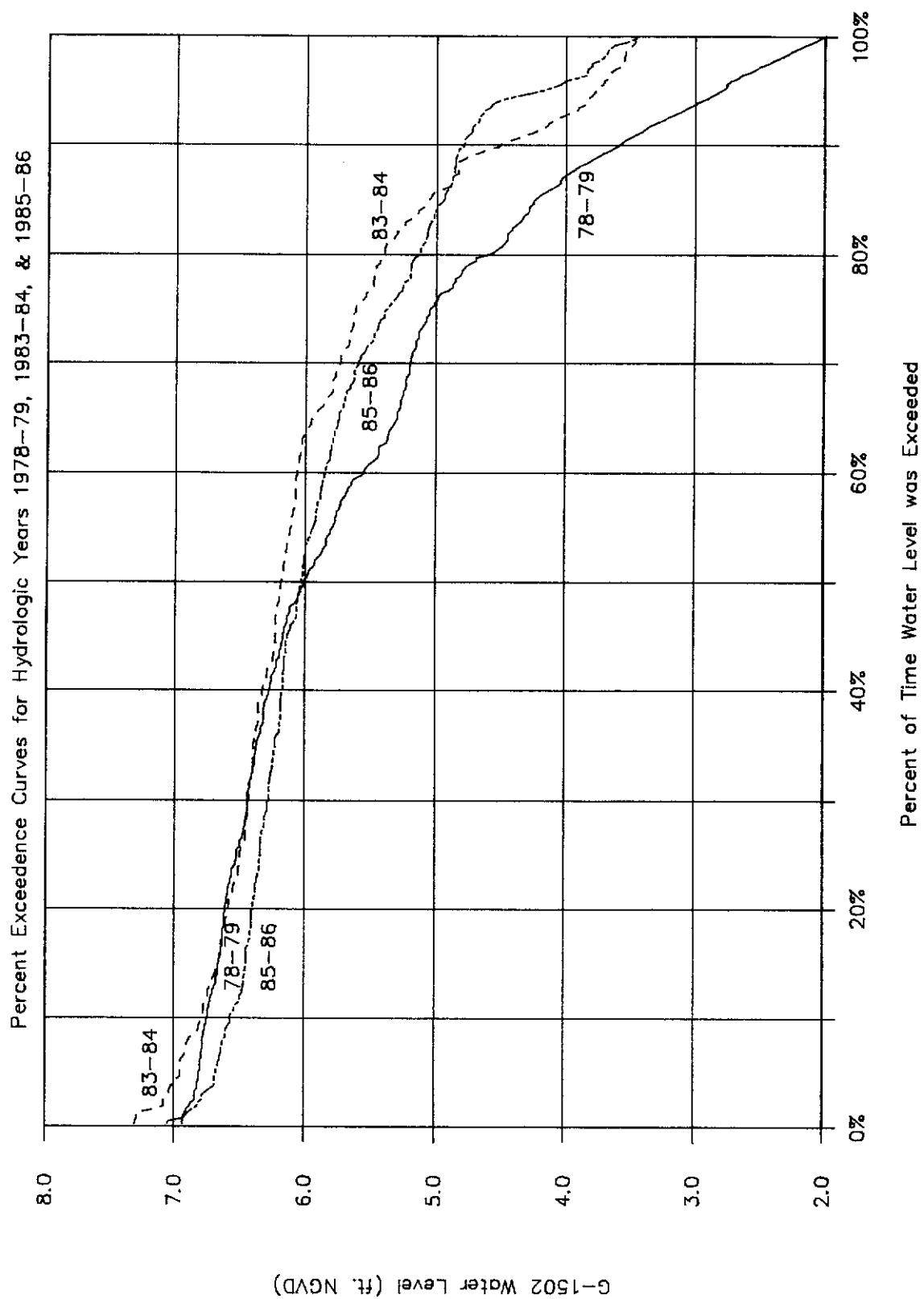


Figure 38. Percent-Exceedence Curves for G-1502 Water Levels

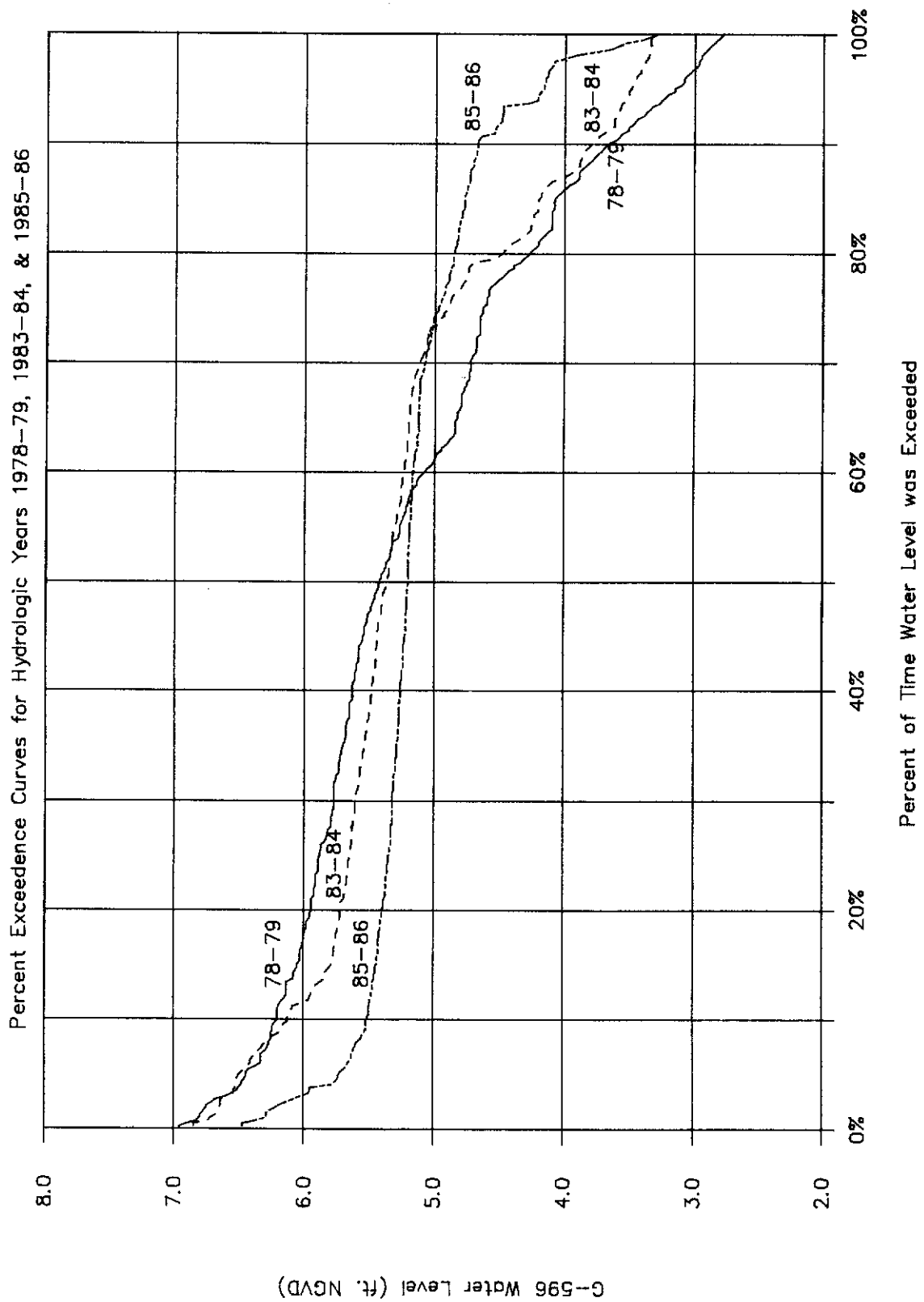


Figure 39. Percent-Exceedence Curves for G-596 Water Levels

**Table 9. Linear Regression Analysis Results for Wells G-1502
and G-596 versus Angels Well**

G-1502 versus ANGELS
Regression Equation ¹ : $(G-1502) = 1.159 (ANGELS) - 0.3922$
Standard Error of the Estimate: 0.261
Correlation Coefficients ³ , $r = 0.955$
Coefficient of Determination ⁴ , $r^2 = 0.912$
where (G-1502), (G-596), and (ANGELS) represent the water levels (ft) at the respective wells.
G-596 versus ANGELS
Regression Equation ² : $(G-596) = 0.6201 (ANGELS) + 1.778$
Standard Error of the Estimate: 0.210
Correlation Coefficient ³ , $r = 0.905$
Coefficient of Determination ⁴ , $r^2 = 0.819$
¹ regression based on 1,074 days between June 1984 through May 1987.
² regression based on 1,094 days between June 1984 through May 1987.
³ the correlation coefficient gives a numerical indication of the strength of the linear relationship between the water elevations at the wells. Values greater than 0.90 indicate a strong linear relationship exists.
⁴ the coefficient of determination is the square of the correlation coefficient. It gives a numerical indication of the fraction of the total variation in the water level at G-1502 or G-596 that can be explained by the regression lines.

to groundwater levels at the G-1502 and G-596 were determined. Because of the good cross-correlation among groundwater levels at these wells (Figure 37), the degree of fit of the regression lines was also good (Table 9).

Based on the regression equations, a groundwater level of 6.0 feet at Angel's well corresponded to a groundwater level of 6.6 feet at G-1502 and 5.5 feet at G-596. The percent of time these "critical" groundwater levels were exceeded in all years from 1975-76 through 1986-87 are given in Table 10. For G-1502, the percent of time the critical water level was exceeded during the test was within the range of percent-exceedance values experienced since 1976. For G-596, note that the percent

Table 10. Percent of Time Critical Water Levels were Exceeded at G-1502, G-596 and Angel's Well

HYDROLOGIC YEAR ¹ (June-May)	G-1502 Percent of Time Water Level Exceeded 6.6 ft	G-596 Percent of Time Water Level Exceeded 5.5 ft	ANGEL'S WELL Percent of Time Water Level Exceeded 6.0 ft
1975-76	2	26	--
1976-77	12	31	--
1977-78	7	13	--
1978-79	20	47	--
1979-80	9	53	--
1980-81	7	50	--
1981-82	26	31	--
1982-83	64	80	--
1983-84	19	37	--
1984-85	13	18	19
1985-86	9	10	12
1986-87	9	9	13

¹ The 12 month period beginning June 1 and ending with May 31.

of time the critical value was exceeded was less during the test than during any year since 1976. This indicates that the number of occurrences of high water levels in areas near G-1502 was not affected because of reintroduction of flow to NESRS, but that the number of occurrences of high water levels in areas near G-596 was decreased during the test. The influence of the L-31N canal was the likely reason for the decrease in the number of occurrences of high water levels at G-596 during the test. Since the L-31N canal did not affect water levels at G-1502, that well did not show a similar decrease in water level. Since Angel's well lies between these two wells, it is reasonable to infer that the percent of time the critical water level of 6.0 feet was exceeded was not increased because of the test and in fact may have been decreased. This would be true for the actual nonlinear gradient, or an assumed linear gradient from G-1502 to the L-31N canal.

Finally note that the amount of groundwater that seeped into the L-31N canal from the areas adjacent to the canal increased during the test. Figure 40 illustrates the monthly volumes of seepage for hydrologic years 1983-84 and 1985-86. The net seepage from the area was 249,700 acre-feet in 1983-84 and 294,400 acre-feet in 1985-86, an increase of 18 percent. The net seepage into the canal was estimated by subtracting other inflows to the L-31N canal (by way of S-334 and S-335) from the flow out of the canal (by way of S-331, S-336 and S-338). The increase in groundwater that is collected by the L-31N canal has two possible adverse impacts. First, the exported groundwater is lost to water supply since it is pumped south to the C-111 basin. Second, the additional flow to the C-111 basin has the potential to decrease the flood protection in that basin.

b. Effects on the L-31N Canal Water Levels - There are three major factors that may affect the water levels in the L-31N canal: (1) rainfall and evaporation, (2) groundwater levels in the Rocky Glades area, (3) and S-331 operation. Several analyses were done to illustrate the relative importance of these factors. These analyses indicate that the operation of S-331 has the most significant influence on the L-31N canal level in the short and long terms.

1) Short Term Effects - Short term effects were illustrated by comparing time series of rainfall, groundwater levels, and S-331 discharge with time series of L-31N canal water levels (Figures 41, 35, and 41, respectively). The wet season of 1985 was selected for comparison of L-31N canal levels to rainfall, S-331 discharge, and to the Rocky Glades area groundwater levels. The interaction of groundwater with water levels in the L-31N canal was discussed in the previous section. Recall that in general, the canal is removing groundwater from the Rocky Glades area. The rate of removal is a function of the water levels in the Rocky Glades area and the hydraulic gradient between the area and the canal.

S-331 operation had the most significant impact on canal water levels. In general, if S-331 discharge was small, water levels in the canal increased regardless of whether rainfall occurred (e.g., early September). The rise in water level in the canal without rainfall illustrates the inflow of water to the canal from groundwater. When rainfall occurred at the same time as small S-331 discharge, water levels in the canal rose sharply (e.g., late July and mid September). Subsequent discharge at S-331 served to quickly lower the L-31N water level.

2) Long Term Effects - Long term effects were illustrated by comparing percent-exceedance curves for L-31N canal water levels for years prior to and during the test. On these plots, water levels in the canal (Figure 42) were plotted against the percentage of the time each water level was exceeded during a given hydrologic year. As was done for the analysis of long term effects on Rocky Glades groundwater levels, the hydrologic years 1983-84 (pretest) and 1985-86 (test) were compared because of their similarities in amount and distribution of rainfall (Data was not available for 1978-79).

The percent-exceedance curve plotted for L-31N canal water levels for 1985-86 is distinctly different from the curve for 1983-84. Water levels in the canal were moderated during the test as compared to pretest conditions. Note that water levels in the canal during the test were generally lower than water levels in the canal prior

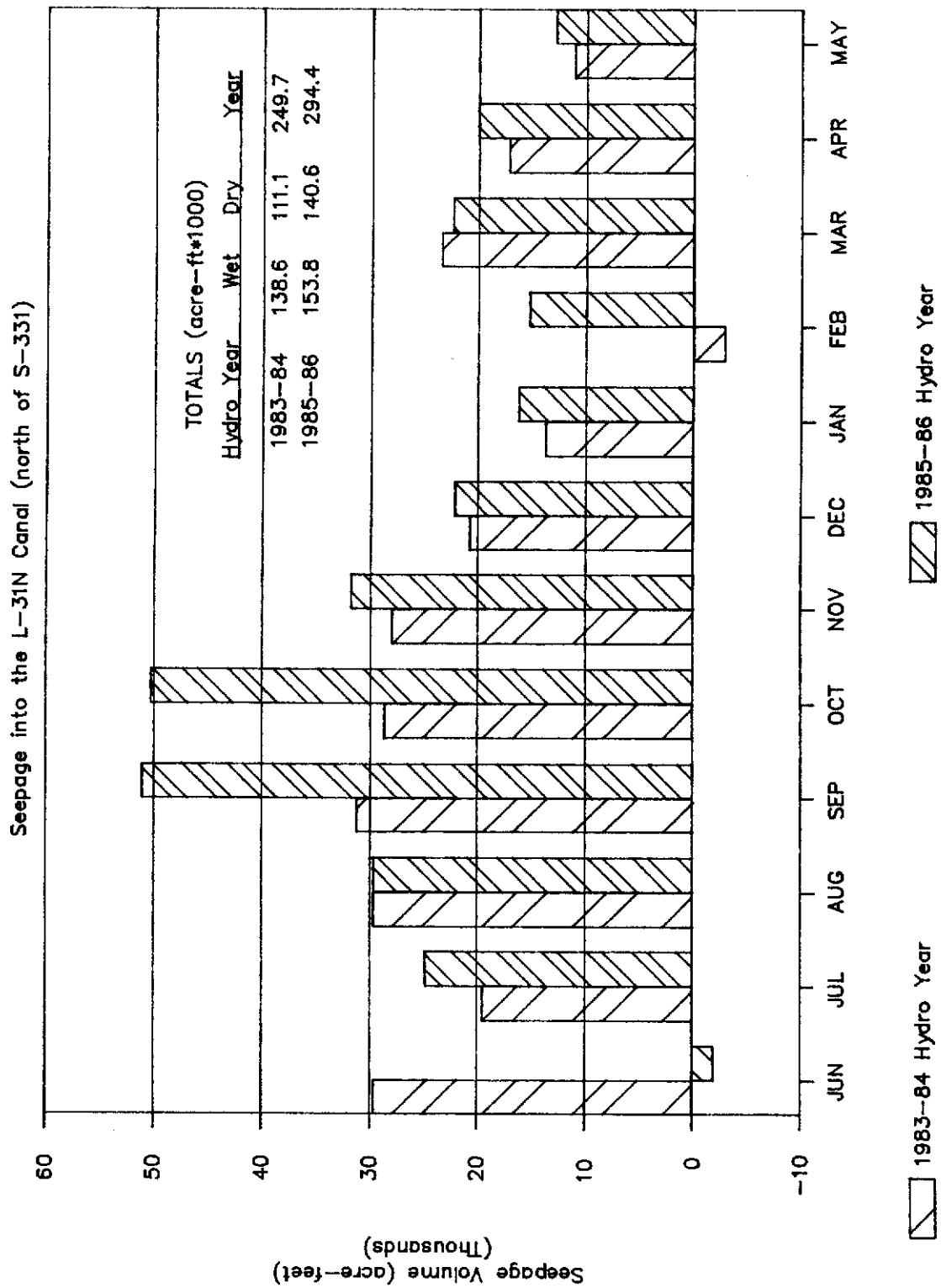


Figure 40. Seepage into the L-31N Canal Prior to and During the Test

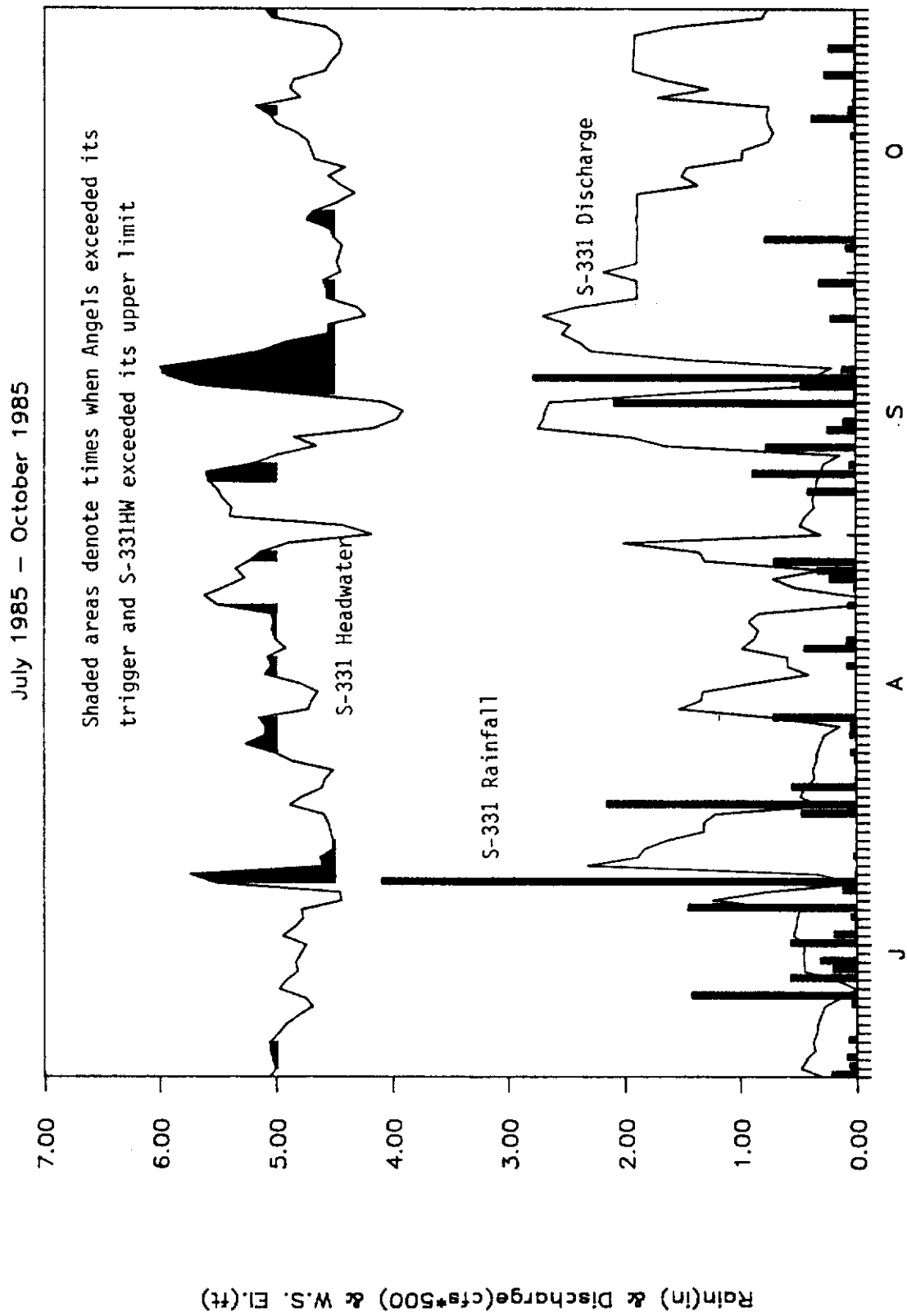


Figure 41. Effect of Rainfall and S-331 Discharge on L-31N Water Levels

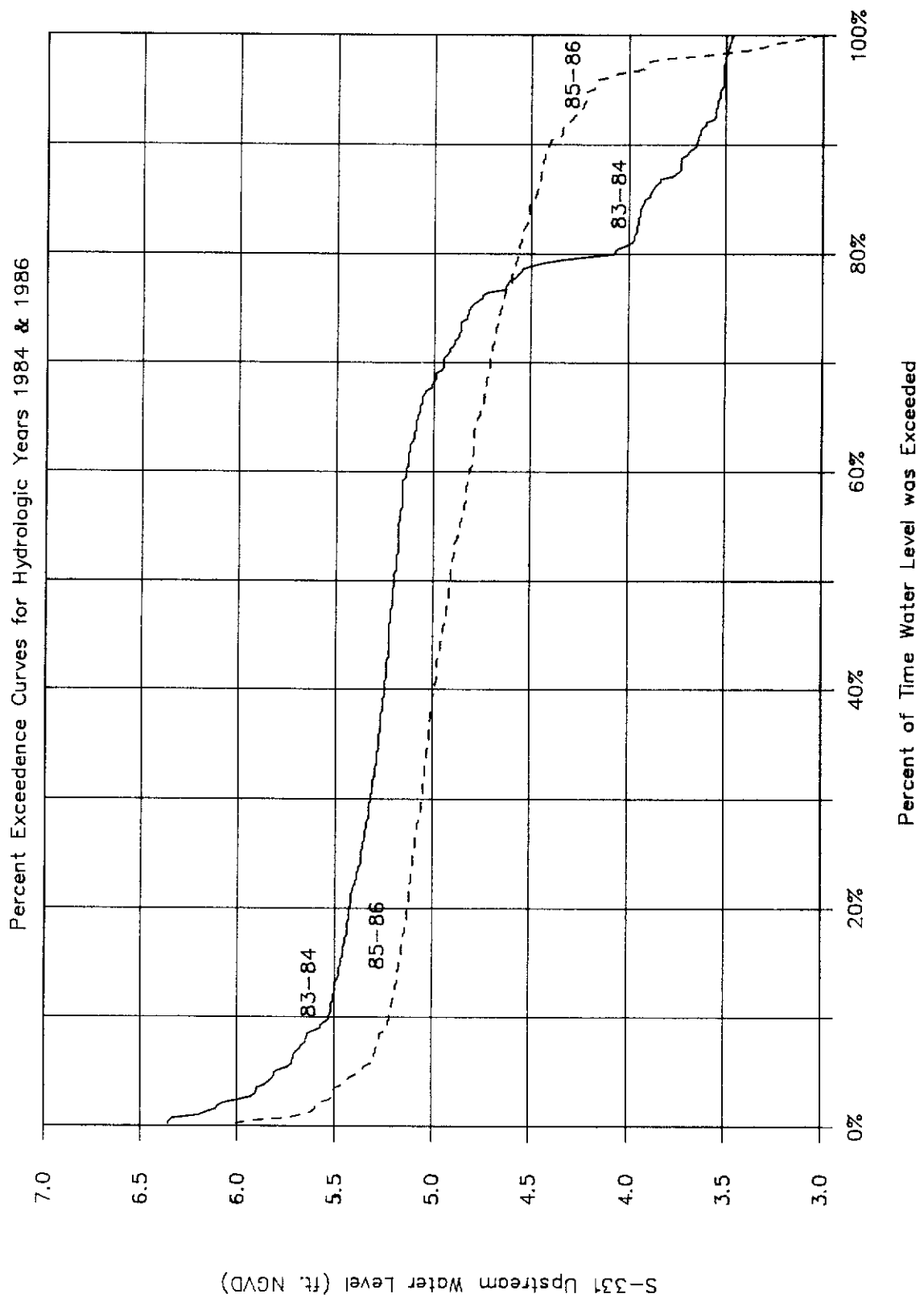


Figure 42. Percent-Exceedence Curves for Water Levels in the L-31N Canal North of S-331

to the test. For example, a water level in the canal of five feet was exceeded 68 percent of the time in 1983-84, but only 38 percent of the time in 1985-86. Since rainfall for these two years was similar, the difference in water levels was most likely due to the different operational criteria for the canal for the two years and in spite of possible increases in water levels due to S-333 releases in 1985-86.

Increased discharge by way of S-331 did not cause an increase in the L-31N water levels in the reach between S-331 and S-176. The operation of S-176 kept the water levels below those experienced before the test. Figure 43 illustrates the percent exceedance curves for the S-176 headwater for the hydrologic years 1983-84 and 1985-86. Note the water levels in 1985-86 were moderated as compared to those for 1983-84. For example, a water level of 4.5 feet was exceeded 31 percent of the time in 1983-84 and only 13 percent in 1985-86.

3. Did the District Comply with the Test Agreement? - The District had no difficulties complying with the terms of the test agreement during the test. Compliance with the test agreement, however, affected the implementation of the Rainfall Plan for significant periods during the test.

a. S-333 Operation - To comply with the test agreement, S-333 discharge was restricted in two ways: (1) when G-3273 exceeded its trigger level of 6.8 feet for more than 24 hours, S-333 was closed until the water level in G-3273 dropped below the trigger level, and (2) when the water level in the L-29 canal exceeded the maximum level of 7.50 feet, S-333 discharge was limited to maintain the water level in the canal at or below 7.50 feet.

At no time during the test did the District fail to close S-333 when the water level in G-3273 exceeded the trigger for more than 24 hours (Figure 13, September 19-28, 1985; October 7-8, 1985; August 19-20, 1986). S-333 was closed on two occasions in anticipation of major storm events, Hurricanes Kate and Floyd (November 18-20, 1985; October 12-13, 1987). In the case of Hurricane Floyd, the water level in G-3273 exceeded the trigger level while S-333 was closed. S-333 was not reopened until after the water level in G-3273 fell below the trigger level. S-333 was closed on other occasions because the Rainfall Plan called for no discharge to SRS.

At no time during the test did the water level in the L-29 canal significantly exceed the maximum allowable water level of 7.50 feet (Figure 14). To prevent the water level in L-29 from exceeding the maximum, the discharge through S-333 was restricted to less than amounts called for by the Rainfall Plan for significant periods during the test (17 percent of the time). The result was a 30 percent reduction in flow to NESRS. In general, flow restrictions were required for target discharge in excess of 1000 cfs and occurred during the wet seasons (Figure 14).

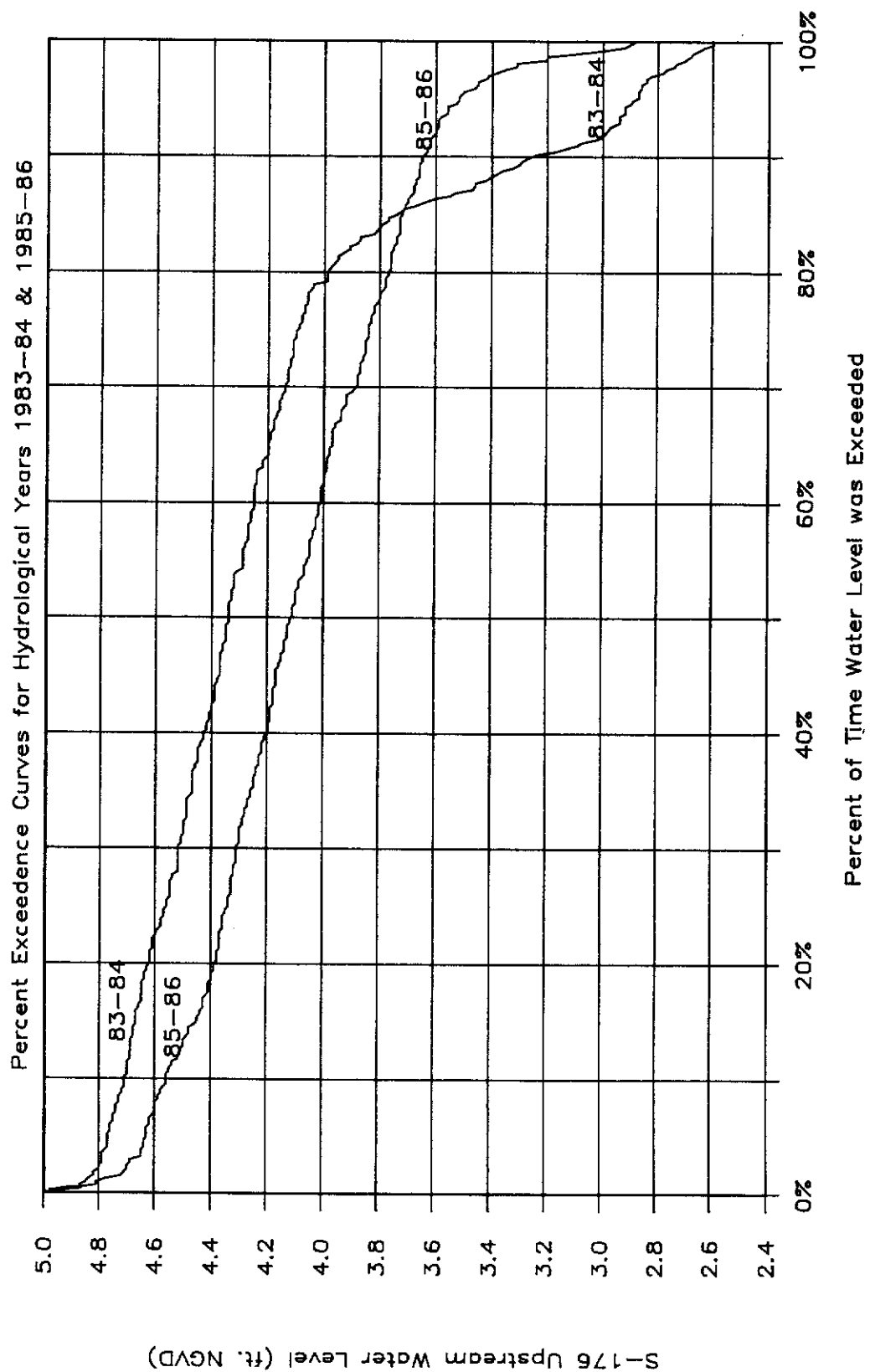


Figure 43. Percent-exceedence Curves for Water Levels in the L-31N Canal South of S-331

b. L-31N Canal Operation - Water levels in the L-31N canal exceeded the water levels called for by the test agreement on a number of occasions (Figures 11 and 12)¹³. Some of the times that maximum water levels were exceeded were unavoidable because of restrictions on the operation of S-331 (see Section VI.D.1.). The structure was closed (e.g., Figure 41, mid-July and mid-September) when there was risk of flooding downstream along the L-31N canal or C-111. Note that for the examples cited on Figure 41, the water levels in the canal were returned to normal very soon after pumping was resumed at S-331.

In other cases, exceeding maximum water levels may have been avoided if the canal level had been drawn down sufficiently prior to a rain event. Although the District does in fact draw the canal down in anticipation of significant rain events (see Figure 41, mid-September), it is difficult to know how much is enough. There is always the danger of drawing the canal down too far and losing valuable water from the area. It is characteristic of most C&SF Project canals that water levels will rise slightly and briefly above desired operational levels during a rain event, but will be returned to the desired level as soon as possible. This was the operational policy followed by the District for the L-31N canal upstream of S-331.

Note that the times of exceedance were brief and were characterized by sharp peaks in the hydrograph (Figures 11, 12, and 41). The fact that the hydrograph peaks were sharp with steep recession limbs indicates the canal was removing excess water from its drainage area very quickly; a desirable effect from a flood risk perspective.

¹³Note that for the reach of the L-31N canal south of S-331, the water level during the test at no time exceeded the pretest normal operational level of 5.5 feet.

VII. SUMMARY AND CONCLUSIONS

A detailed hydrologic analysis of a two-year field test of the Rainfall Plan has been presented in this report. The Rainfall Plan is a water management plan designed to provide environmental benefit to ENP by returning the hydrology of SRS to a condition compatible with the natural environment of ENP. Specifically the Rainfall Plan has three objectives.

The first objective is to base surface water flows to SRS on "natural processes". With completion of the WCAs north of ENP, surface water flows from the north to ENP became a function solely of water management policy. Since the natural environment of ENP developed in response to natural, inherently variable, processes (e.g. rainfall), it is essential that any man controlled process affecting the natural environment of ENP (in this case, surface water flows into ENP) also is based on natural processes and reflects the variability inherent in those processes.

The second objective is to provide for gradual changes in the rate of surface water flows to SRS. Under the original implementation of the WCA 3A regulation schedule, abrupt changes in flow rate occurred. These abrupt changes are disruptive to wildlife. In as much as possible, it is desirable to have smooth increases in flow rate and extended, smooth recessions. The Rainfall Plan added transition zones to the WCA 3A regulation schedule. These transition zones were designed to provide the desired gradual transitions in rate of flow.

The third objective is to provide for distribution flow across the entire slough. Prior to construction of the WCAs, surface water moved into ENP across a broad flow section, from the L-31N levee westward 25 or 30 miles. After construction of the WCAs, all the surface water flowing to ENP was funneled through the S-12 structures over a flow section of only about 10 or 12 miles. Construction of the L-67 Extension levee and borrow canal in 1967 further restricted flow by preventing water from spreading out, after passing through the S-12 structures, into what is now called Northeast SRS (NESRS). The Rainfall Plan calls for reintroduction of surface water flow to NESRS.

The two-year test of the Rainfall Plan was conducted only after the District and the Rocky Glades residents and farmers (farmers) had negotiated and signed an agreement governing the implementation of the test. The farmers were concerned that restoration of flow to NESRS would increase the flood risk to their property. The agreement had three major provisions concerning the implementation of the test: (1) regulation of water levels in the Rocky Glades area by regulation of water levels in the L-31N canal, (2) interruption of flow to NESRS when groundwater levels in the Rocky Glades area exceeded acceptable limits, and (3) supplying field data from the test to the farmer's engineering consultant.

The test of the Rainfall Plan was begun on July 11, 1985. The test was to be completed on July 10, 1987, but by agreement of the parties involved, operation under the Rainfall Plan was continued pending the outcome of the U.S. Corps of Engineers General Design Memorandum for the East Everglades.

Under the Rainfall Plan, the desired, or target, rate of surface water flow to SRS was computed weekly as the sum of a "rain-driven" component and a "regulatory" component. The rain-driven component was determined by a statistical formula that related surface water flow to SRS to current and antecedent upstream weather conditions (i.e., rainfall and evaporation). The regulatory component depended on the average water level in WCA 3A and was necessary to maintain water levels at or below the regulation schedule for WCA 3A. Insofar as possible the spatial distribution of the target flow was 45 percent to ENP by way of the S-12 structures, and 55 percent to NESRS by way of S-333 and the L-29 culverts.

The findings of this investigation of the two-year test of the Rainfall Plan are discussed with regard to the objectives of the Rainfall Plan, to the terms of the Test Agreement, and to the overall hydrology of the area receiving surface water under the Rainfall Plan.

Objective 1 - Amount and Timing of Flow

1a. A statistical formula was developed and then used to calculate surface water flow to SRS as a function of rainfall and evaporation rates in WCA 3A and of the previous week's flow rate to SRS (i.e., the rain-driven component). As a result, flows to SRS were more variable and were more responsive to upstream conditions than under the Minimum Delivery Schedule (the legally mandated delivery schedule). Under the Rainfall Plan, dry season flow rates decreased more quickly and receded further (these are desirable effects) than under the Flow-Through Plan (a previously tested plan).

1b. The regulatory component of discharge during the 1985 and 1986 wet seasons was as much as twice the rain-driven component, significantly increasing the target flow to SRS. The significance of these large regulatory releases to the environmental well-being of ENP has yet to be determined.

1c. Analysis showed that the Interim Action Plan, the water management plan in effect in the EAA upstream of WCA 3A, contributed to about one-third of the volume of the large WCA 3A regulatory releases.

1d. Discharge through S-333 was restricted during the 1985 and 1986 wet seasons because water levels in the L-29 canal were limited to less than 7.5 feet. These were usually periods when the Rainfall Plan called for large discharge (greater than 1000 cfs through S-333). Because of the restricted discharge through S-333, the actual discharge to SRS was often less than target (only 85 percent of the target SRS flow was met for the period of the test). Discharge was restricted only during the wet seasons; dry season discharge was always on target. If the large regulatory releases had not been required, and the target discharge had been based only on the rain-driven component, the target discharge through S-333 could have been met at nearly all times during the test.

Objective 2 - Moderation of Abrupt Changes in Flow

2. The abrupt changes in flow experienced under the previous WCA 3A regulation schedule were moderated under the Rainfall Plan. Hydrographs of discharge to SRS under the Rainfall Plan exhibited a more natural response to current and antecedent upstream weather conditions. This natural response was illustrated by smooth, gradual rises in the hydrograph and extended recessions.

Objective 3 - Spatial Distribution of Flow

3a. Large amounts of surface water were discharged to NESRS during the test, making the spatial distribution of flows to SRS more like the historic spatial distribution.

3b. Although flow was reintroduced to the full width of the slough, the desired distribution of flow across the slough, 45 percent through the S-12 structures directly into ENP and 55 percent through S-333 to NESRS, could not be achieved for those periods during the test when discharge through S-333 was restricted. Over the period of the test, only 38 percent of the target SRS flow was made to NESRS. The target of 45 percent of the discharge through the S-12 structures was met or exceeded at all times during the test. The actual flow to SRS was split 43 percent through S-333 and 57 percent through the S-12 structures. The percentage of the surface water flow to SRS that was discharged to NESRS decreased with total SRS discharge - the inverse of the historic relationship between these parameters. If the large regulatory releases had not been required, and the target discharge had been based only on the rain driven component of discharge, there would have been little difficulty in achieving the desired distribution of flow across the slough.

Terms of the Test Agreement

4a. The two-year test of the Rainfall Plan was implemented in compliance with the agreement between the District and the south Dade County farmers.

4ai. Regulating the water level of the L-31N canal was effective in moderating groundwater levels in the Rocky Glades area. Water levels in the Rocky Glades area did not increase with the implementation of the Rainfall Plan. There is evidence to suggest that water levels in this area was lower during the test than prior to the test.

4aii. S-333 was closed as required by conditions of the test; however, closing S-333 when the water level in G-3273 exceeded its trigger level was unnecessary. Groundwater levels at G-3273, the trigger for closure of S-333 under the conditions of the test, did not respond to closure of S-333. Since the Rocky Glades area is down-gradient of G-3273, it is likely that groundwater levels in the Rocky Glades area also did not respond to closure of S-333.

4b. Large volumes of NESRS groundwater were removed from the Rocky Glades area by the L-31N canal during the test. Most of this water was pumped south to the C-111 basin by S-331. The volume of seepage to the L-31N canal during the test exceed that prior to the test by about 18 percent.

SRS Hydrology

5a. Most monitoring sites in the slough had 12 month hydroperiods with water depths that varied seasonally.

5b. Water levels in SRS were directly affected by surface water inflow under the Rainfall Plan: almost all gaged sites reported water levels rising and falling in accordance with discharges at the S-12 structures and S-333. The magnitude of the effect decreased with distance from the discharging structures. Direct rainfall also had a pronounced affect on water levels in the slough. Estimates of the volume of water contributed by rainfall (848,500 acre-feet) and by surface water inflows (508,500 acre-feet) to the NESRS area during the test suggest that both are important in affecting water levels in SRS.

5c. A water budget was determined for the NESRS area for the 1986-87 hydrologic year. Rainfall and surface inflows accounted for almost all inflows to the area and made roughly equal contributions (53 percent of total inflows for rainfall and 42 percent for surface water inflows). As water levels were generally higher on the west side of L-67 Extension than on the east, there was a net seepage of water into NESRS. This seepage accounted for 5 percent or less of the total inflows to NESRS.

Evapotranspiration accounted for most of the water lost from the area (57 percent of the total losses). Seepage to the L-31N borrow canal was the next largest loss, but was only half as large as the loss to evapotranspiration. Water was also lost from the NESRS area by seepage to WCA 3B through L-29 (about 6 percent of total losses) and to regional groundwater (about 10 percent of total losses). Surface water outflows from the area into ENP around the end of L-67 Extension happened only occasionally. Over the period of the test, the net surface water outflow term was probably negative, that is, there was a net inflow of water to the NESRS area around the end of L-67 Extension.

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APPENDIX A

THE RAINFALL PLAN - TECHNICAL DETAILS

by Thomas K. MacVicar

Technical details regarding the development of the Rainfall Plan are presented in this appendix. Discharges made to Shark River Slough (SRS) via the Rainfall Plan consist of the sum of a rain-driven component and a regulatory component. The rain-driven component is determined by a statistical model known as the rainfall formula. The regulatory component is determined by the new regulation schedule for WCA 3A. This appendix deals primarily with the development of the rainfall formula. Five major topics are discussed: (1) data selection, (2) model development, (3) parameter estimation, (4) check for goodness of fit, and (5) long-term performance of the Rainfall Plan. The last section describes the results of a numerical simulation that was made to assess the performance of the Plan (i.e., the rain-driven and regulatory components together) over the 23-year period from 1966-84.

1. Data Selection - Built in the 1920's as the first road through the Everglades, the Tamiami Trail (Figure A-1) includes numerous culverts and bridges to accommodate the north-to-south flow of water. These structures have also made it possible to accurately measure the flow rate at that point in SRS. The data set for rainfall, water level, and flow rates in the Everglades prior to 1939 is sparse. The USGS began to continuously monitor flow through the culverts and under the bridges of Tamiami Trail in 1939. It was not until 1941 that the U.S. Weather Bureau had installed rain and evaporation gages in the area. By 1953, a levee along the eastern side of the Everglades was completed, causing a marked change in the hydrologic response of the slough to upstream weather conditions (Leach, et al., 1972). The data set available to determine the natural hydrologic behavior was therefore limited to 1941-52, at the stations shown in Figure A-1. The District's goal was to use this data to develop a model of the flow in SRS at Tamiami Trail based on upstream evaporation and rainfall measurements.

To analyze the historical data, a time step of one week was chosen. Prior to development in south Florida, the natural system changed continually in response to natural stimuli. In managed systems as large as the Everglades, continuous, or even daily, adjustments are not practical or necessary. The seven-day time step was chosen because it provided a workable data set for statistical modeling and also was a frequent enough change to provide a natural response to conditions. The seven-day segments also fit in well operationally, allowing for a weekly routine of data collection, analysis, and structure changes to adjust the flow rate. Mean weekly discharge into SRS, and areal rainfall and pan evaporation in the area that is now WCA 3A and 3B were computed using the available information from 1941-1952 (Figure A-2).

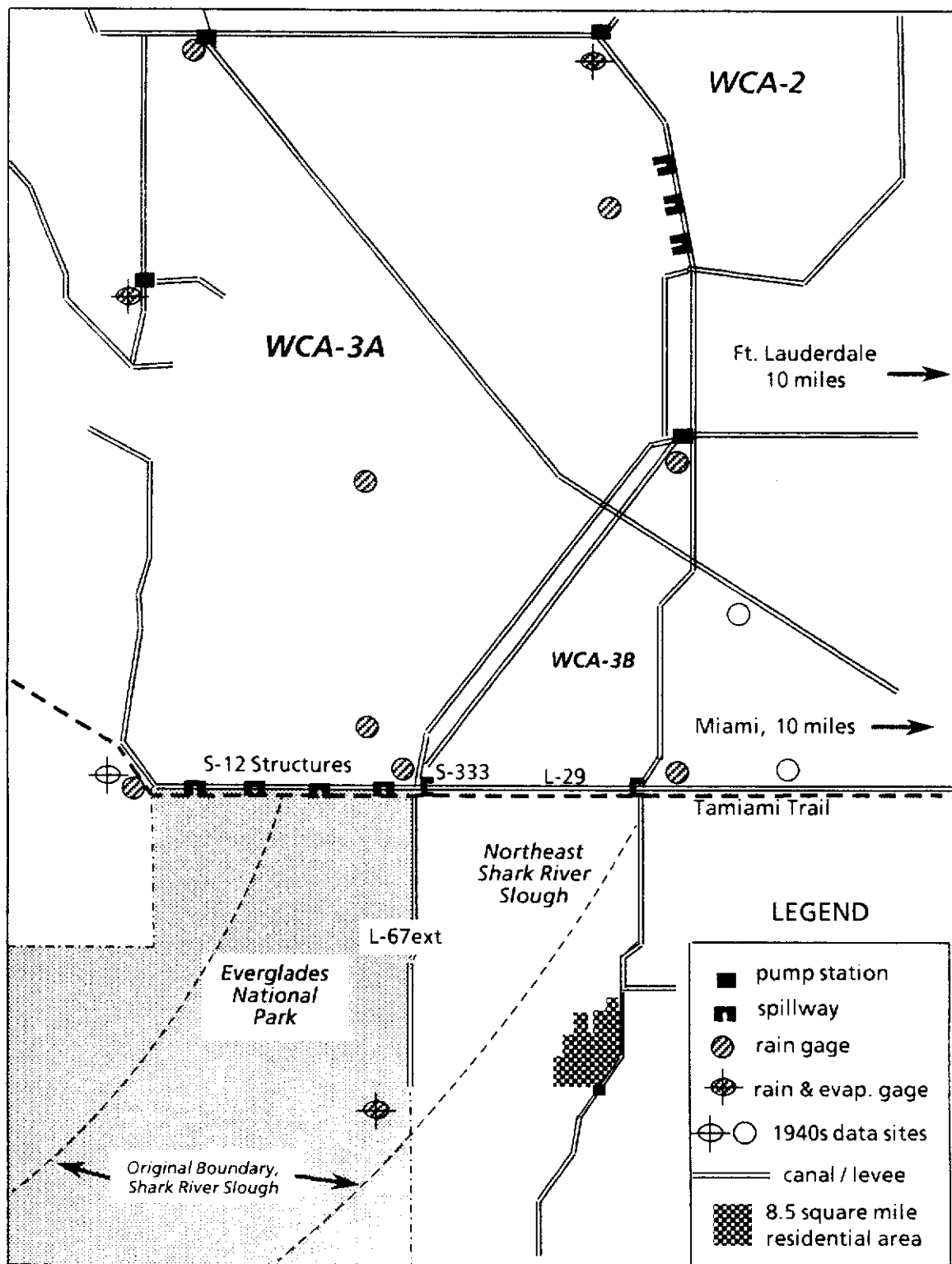


Figure A-1. Location map of Water Conservation Area 3 / Everglades National Park interface along with data collection sites used in the statistical analysis and in the current operation of the system.

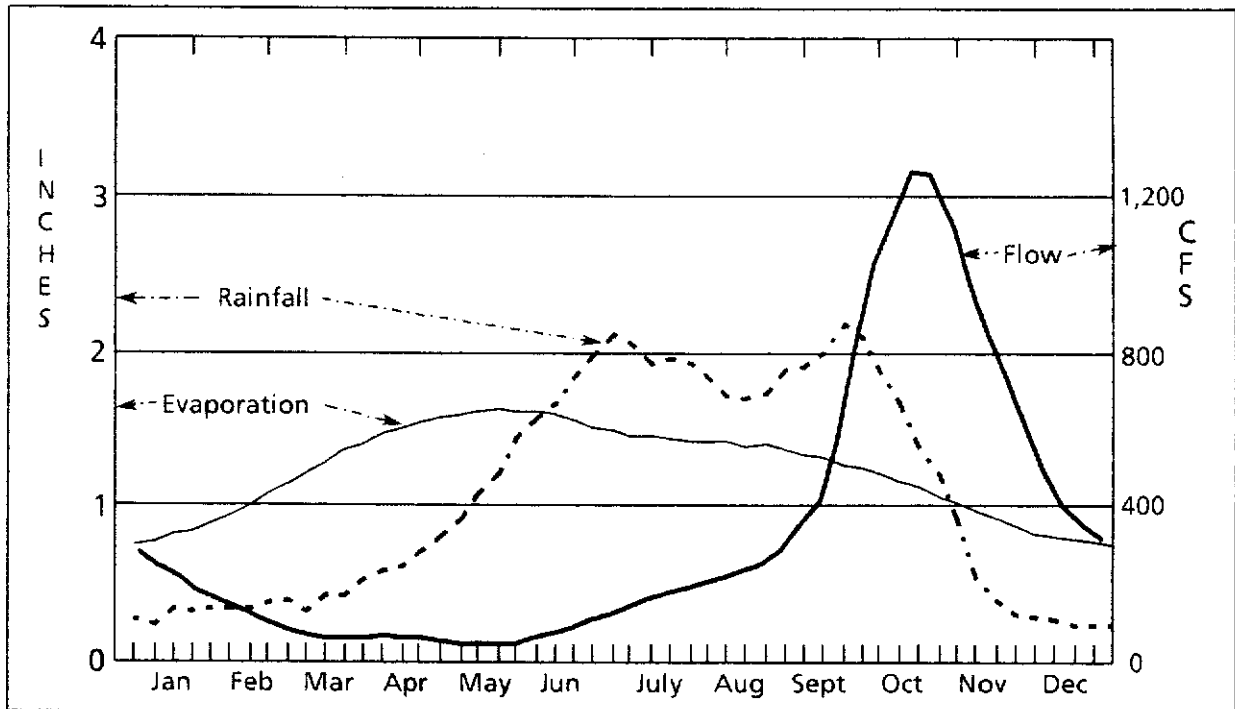


Figure A-2. Weekly averages of rainfall, evaporation and flow rate, computed by taking a five-week, centered, moving average of the period 1941-1952.

2. Model Development - The hydrologic time series data were considered to be a combination of periodic and stochastic elements. The estimation of the periodic components of the time series is crucial for the correct modeling of the stochastic component (Yevjevich, 1972, Salas, et al., 1980). In south Florida, the annual wet-dry seasonal cycles dominate the periodic component of the rainfall, evaporation, and flow time series. Therefore, the stochastic component of a hydrologic time series at any time t , was defined as:

$$x(t) = (X(t) - \bar{X}(t)) \quad (\text{A.1})$$

where $X(t)$ is the value of the time series at time t , and $\bar{X}(t)$ is the mean value of the time series at time t .

A multiple linear regression formula relating the current weeks flow rate in the slough to the previous weeks rate and the rainfall and evaporation for the previous 10 weeks was expressed as:

$$q(t) = CQ(q(t-1)) + CR_1(RE_1) + CR_2(RE_2) + CR_3(RE_3) \quad (\text{A.2})$$

where

- t = weekly time step
- $q(t)$ = $(Q(t) - Q_{\text{mean}}(t))$ for the current week (cfs)
- $q(t-1)$ = $(Q(t-1) - Q_{\text{mean}}(t-1))$ for the previous week (cfs)
- RE_1 = $((RF - RF_{\text{mean}}) - 0.8(EVP - EVP_{\text{mean}}))$ for weeks 1 and 2 (inches)
- RE_2 = same as above for weeks 3 through 6 (inches)
- RE_3 = same as above for weeks 7 through 10 (inches)
- CQ = lagged flow coefficient (dimensionless)
- CR_1, CR_2, CR_3 = lagged rainfall excess coefficients (cfs/inch)

3. Parameter Estimation - The coefficients CQ , CR_1 , CR_2 , and CR_3 were estimated using the 1941-1952 weekly flow data. These coefficients were computed via least squares using the Statistical Package for the Social Sciences (SPSS; 1985). The coefficients and the bounds on the 95% confidence interval (C.I.) are shown in Table A-1.

Table A-1. Regression Coefficients of the Rainfall Formula

	LOWER 95% C.I.	REGRESSION COEFFICIENTS	UPPER 95% C.I.
CQ	0.836	0.871	0.907
CR_1	52.22	61.40	70.58
CR_2	-4.24	2.63	9.49
CR_3	-3.41	2.89	9.18

4. Check for Goodness of Fit - The last step in developing the rain-driven formula involved checking the formula for goodness of fit. This step was performed to assess how well the formula predicted the original data. This assessment was performed by graphically comparing the simulated and actual flows, and by computing and comparing summary statistics of the simulated and actual flows.

a. Graphical Comparison - Figure A-3 shows a comparison of the actual to simulated flows over the period used to derive the coefficients. The formula appeared to perform reasonably well in simulation, especially for estimating wet season flow and for reproducing the general shape of the flow hydrograph.

The 1941-1952 data set includes the wettest year on record (1947), and two of the driest years (1943 and 1944). The formula overestimated drought flows and underestimated the flood flows. Although this may appear to be a weakness of the statistical formula, it does not limit the value of the formula as one component of the Rainfall Plan. Drainage projects on the periphery of the Everglades moved water toward the coastal cities during the droughts of the forties, resulting in reduced flow to the Slough. While it is not possible to compute what the flow would have been without this drainage, the fact that the formula over-predicts the lowest periods can be viewed as providing some compensation for this weakness in the data set. The formula predicted flow earlier than was measured in seven of the twelve years used in the analysis (see 1946 and 1947 in Figure A-3). The most critical months in south Florida droughts are typically April and May. Efforts to move water from the Everglades toward the coastal wellfields undoubtedly delayed the onset of overland flow in the slough in some years once the wet season began. The hydrograph computed by the formula for the drought years of the forties may be a better estimate of the pre-development hydrologic response than the actual measurements made at the time.

The floods of 1947 were the result of a twelve-month rainfall total of over 100 inches and included two hurricanes. If similar conditions were to occur today the design constraints of the flood control system would override any attempt to reconstruct a natural hydrologic response. Shark River Slough would receive much more water than was measured in 1947 simply because the system built to protect the coastal cities and northern farmland from floods would direct large volumes of runoff toward ENP. The desire for a more natural hydrology would give way to the necessity to control flooding in the developed areas.

b. Summary Statistics - There are many statistics that can be calculated to test the goodness of fit of a statistical formula. Only the basic summary statistics are presented here. In general, the statistics of the predicted flow should be similar to those of the historic flow in order to achieve a "good fit". The closer the statistics of the predicted flow are to those of the historical flow, the better the fit of the model. For the rainfall formula, the important statistics to preserve are the mean, standard deviation, and skewness (Table A-2). Note that the negative predicted flow was set equal to zero before the statistics were calculated.

Table A-2. Summary Statistics

	Historic Flow	Predicted Flow
Mean (cfs)	298.0	358.0
Standard Deviation (cfs)	740.0	504.0
Skewness (cfs)	5.5	2.2

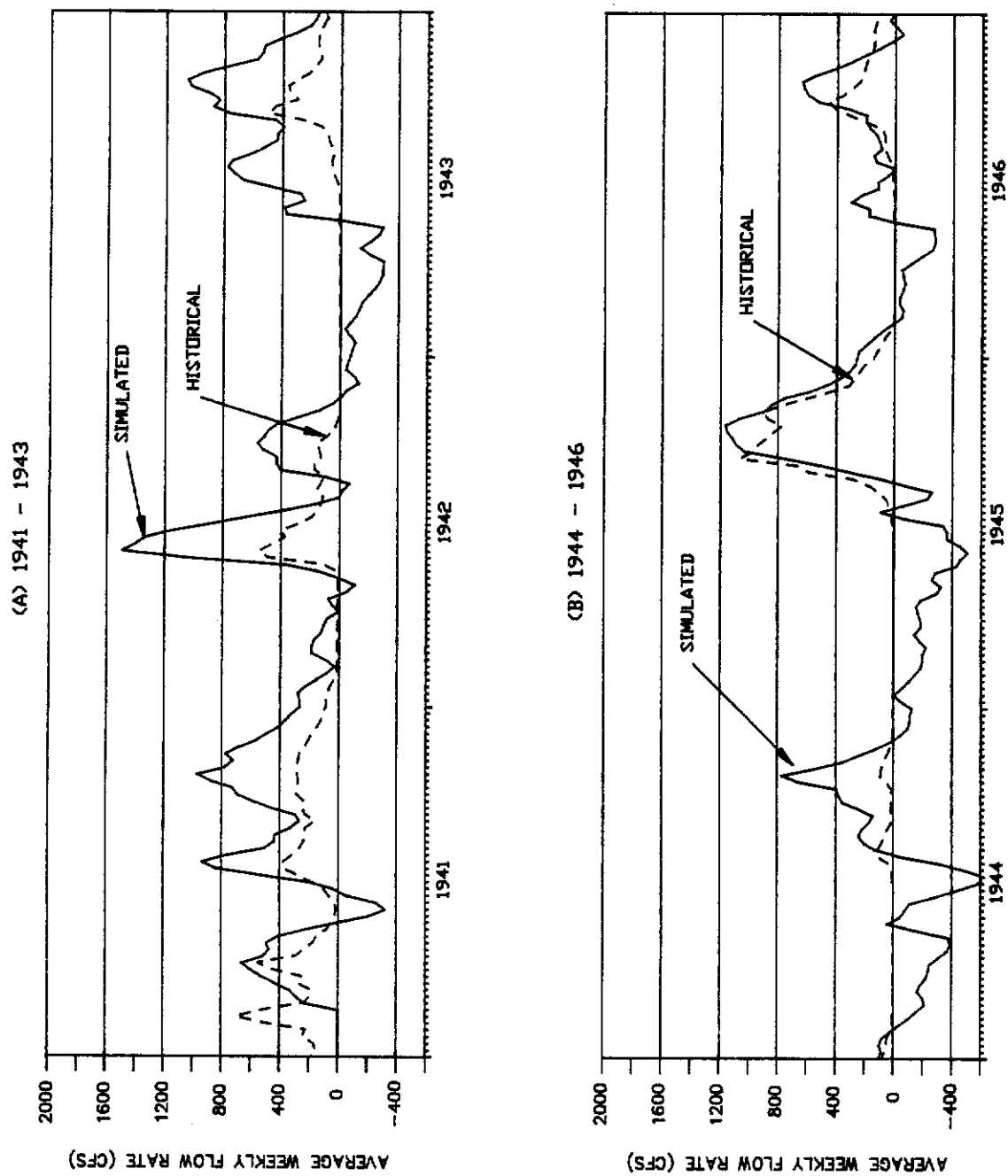


Figure A-3. Comparison of Flow to SRS: Historic Flow Versus Flow Simulated by the Rainfall Formula

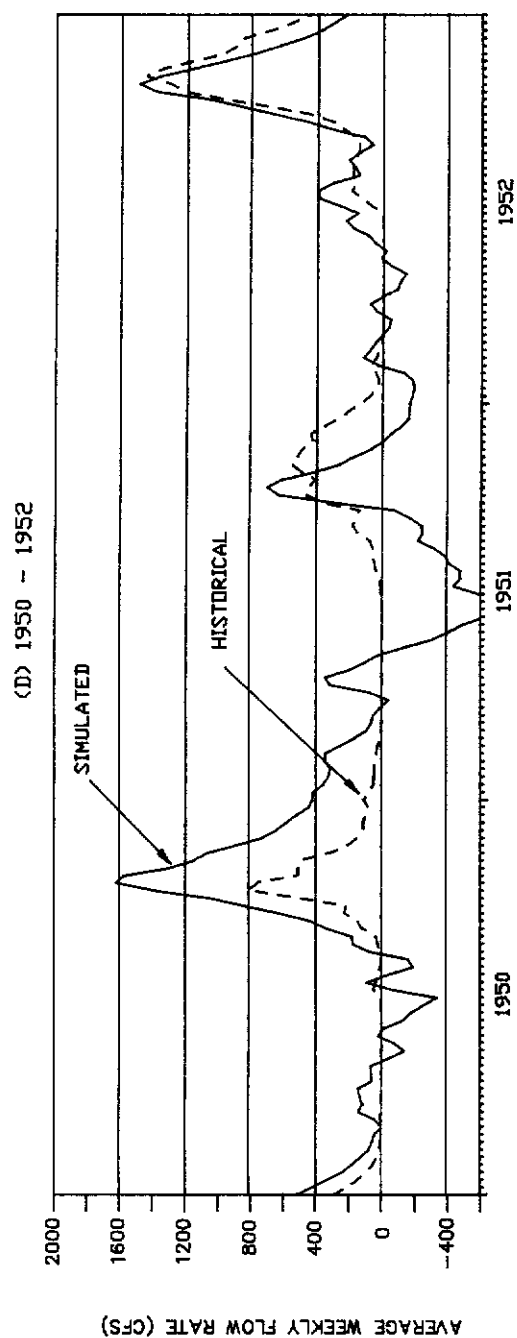
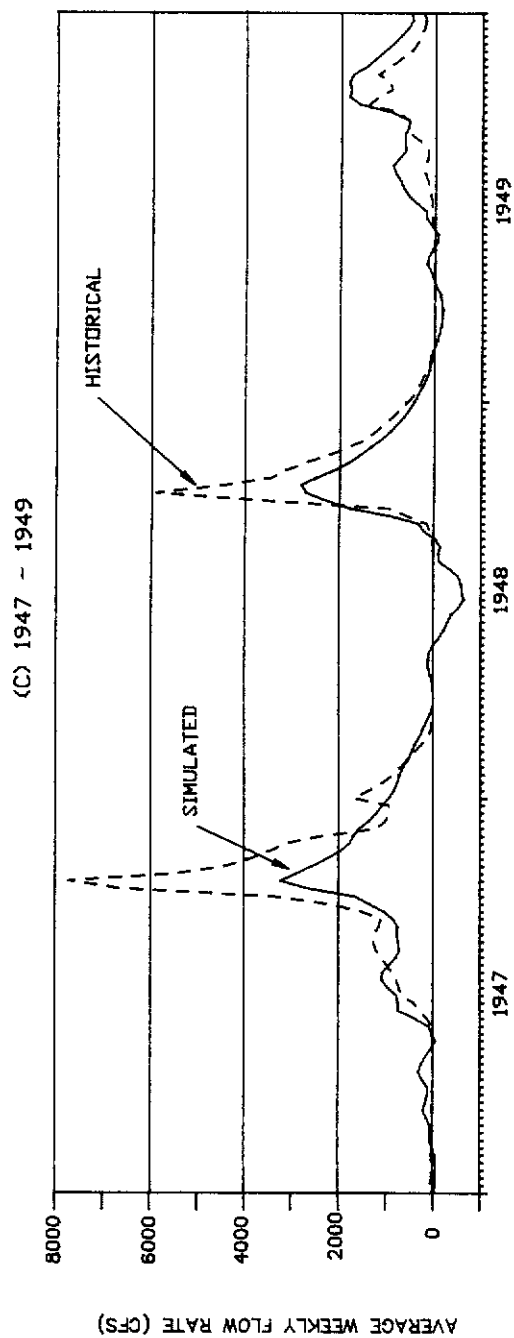


Figure A-3. Comparison of Flow to SRS: Historic Flow Versus Flow Simulated by the Rainfall Formula

The mean of the predicted flow is 59.6 cfs (20 percent) larger than the mean of the historic flow. The average predicted flow is larger since: (1) the formula overestimates the low flows, and (2) the negative predicted flows were set equal to zero before the mean was calculated.

The standard deviation is a measure of the average variability of the flow. The standard deviation of the flow predicted by the formula is 236 cfs (32 percent) lower than that of the historic flow. The standard deviation of the predicted flow is less because: (1) the formula tends to moderate the high and lows of the historic flow distribution, and (2) the negative predicted flows were set equal to zero before the standard deviation was calculated. Thus, the flow predicted by the rainfall formula is less variable than the historical flow.

The skewness is a measure of the symmetry of the distribution of flows. A zero skewness corresponds to a distribution of flows that is symmetric around its mean (e.g., the normal distribution has zero skewness). A distribution of flows having zero skewness has about the same amount of low flow as high flow. A positive skewness corresponds to a distribution of flow that includes many low flows and relatively fewer large flows; this is typical of flow distributions. A flow distribution having negative skewness is unusual. The skewness of the flow predicted by the rainfall formula was lower than that of the historic flow. Thus, the distribution of the predicted flow is more symmetric than the distribution of historic flow.

c. Parameter Manipulation - To compensate for the effects of the drainage works on flow to the slough during the forties, the final formula calls for some manipulation of the coefficients within the 95% confidence interval. The high estimate (.907) of the discharge coefficient (CQ) is used throughout. The rainfall excess coefficients are varied depending on whether the rainfall excess terms are positive or negative. If positive, the high estimates are used. If negative, CR₁ is set to its low estimate and CR₂ and CR₃ are set to zero. Since the low estimates of CR₂ and CR₃ are negative they were not used, since to do so would be contradictory to the natural process (i.e., causing the estimated flow to increase when the rainfall excess term decreases). The result of these manipulations is to strengthen the response to rainfall excess and to change the timing slightly by beginning the flow sooner and by prolonging the recession limb of the hydrograph.

5. Long-term Performance of the Rainfall Plan - The long-term performance of the Rainfall Plan (rainfall formula and new WCA 3A regulation schedule) was simulated as a verification of the overall performance of the Rainfall Plan. A numerical model developed by the District was used to simulate the Plan under a variety of hydrologic conditions for the period 1966-1984. This numerical modeling allowed the water level in WCA 3A and flow to SRS under the Rainfall Plan to be predicted and compared with the actual recorded data (Figure A-4).

The 1966-1984 period included a wide variety of hydrologic conditions. Three general conclusions are suggested by the model results. In very dry years (1971), the Rainfall Plan would release less water than the Minimum Delivery Schedule if the rainfall deficiency is centered in the Everglades basin. In very wet years (1982), flow into SRS would begin sooner, and increase more gradually than was the case under the

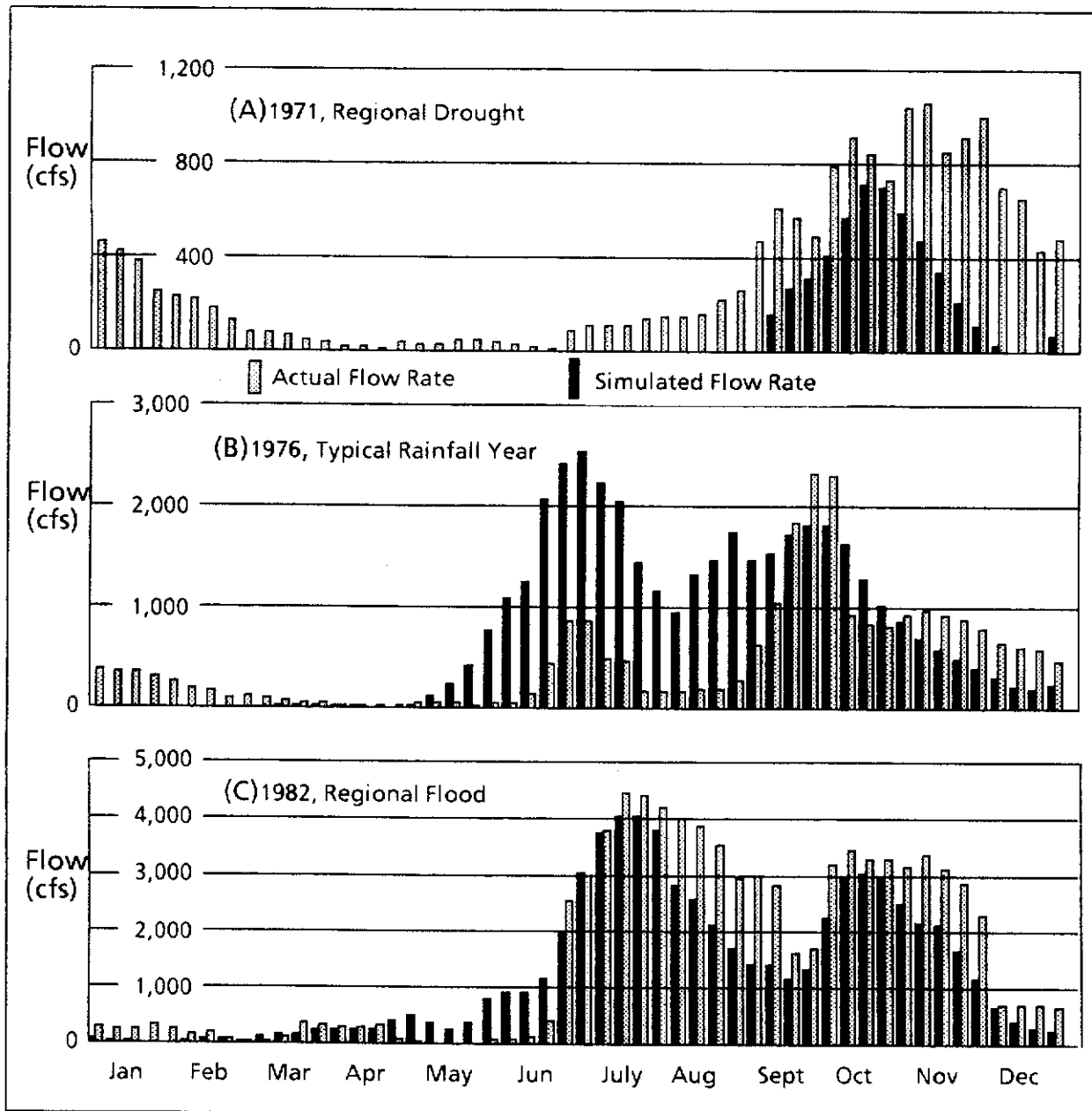


Figure A-4. Simulated flow to Shark River Slough based on the Rainfall Plan compared to the actual flow resulting from the quota system and strict adherence to the regulation schedule.

Minimum Delivery Schedule and the original WCA 3A regulation schedule. In the non-extreme years (1976), the SRS would receive significantly more water, timed in response to rainfall in the Everglades basin. It is this necessity for natural timing that has been cited by Everglades researchers and Park Service management as being crucial to the ecological survival of Everglades National Park.

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APPENDIX B

TOPOGRAPHIC AND SOILS CHARACTERISTICS - NESRS AREA

Topography - Figure B-1 illustrates the topographic features of the NESRS area (the area bounded by L-29, L-31N, and ENP). Over 3,000 surveyed elevations (courtesy of ENP and the COE) were used to develop this map. Data obtained from the COE's Grossman's Ridge survey were also used. The contours shown on the map were selected to illustrate the general relief of the area.

Natural elevations range from below five feet in parts of the slough, to over eight feet near L-31N. The 5.8 foot and 6.0 foot contours in the upper-half of the figure clearly show NESRS. The Rocky Glades residential and agricultural areas are, in general, at elevations greater than 6.5 feet.

Grossman's Ridge is an unusual feature in the relatively flat slough. It extends to the west-northwest from Chekika State Park to near the southern end of L-67 Extension. The top of the ridge is at an elevation of eight to nine feet at Chekika State Park, about two to three feet above the surrounding land. The ridge becomes less pronounced and decreases in elevation as it nears L-67 Extension. The ridge disappears about one mile east of the south end of L-67 Extension.

Soils - Figure B-2 presents the areal extent of the four major soil associations as defined by Gallatin, et al (1958). Profile descriptions and the drainage characteristics of these soils are shown in Table B-1. NESRS is characterized primarily by peat marsh soils. Peat marsh soils are very poorly drained organic soils derived from the remains of sawgrass and succulent aquatic plants. These soils are typically covered with water most of the year and have very slow external drainage (surface runoff). When freed of a high water table, they have medium to slow internal drainage (infiltration).

The developed areas near L-31N are characterized primarily by Rocky Glades Soil Associations. Rockland (aka pinnacle rock) consists of outcroppings of limestone and shallow solution holes filled with fine sand and clay loam materials. External drainage is very slow to none, but internal drainage is rapid when freed of a high water table.

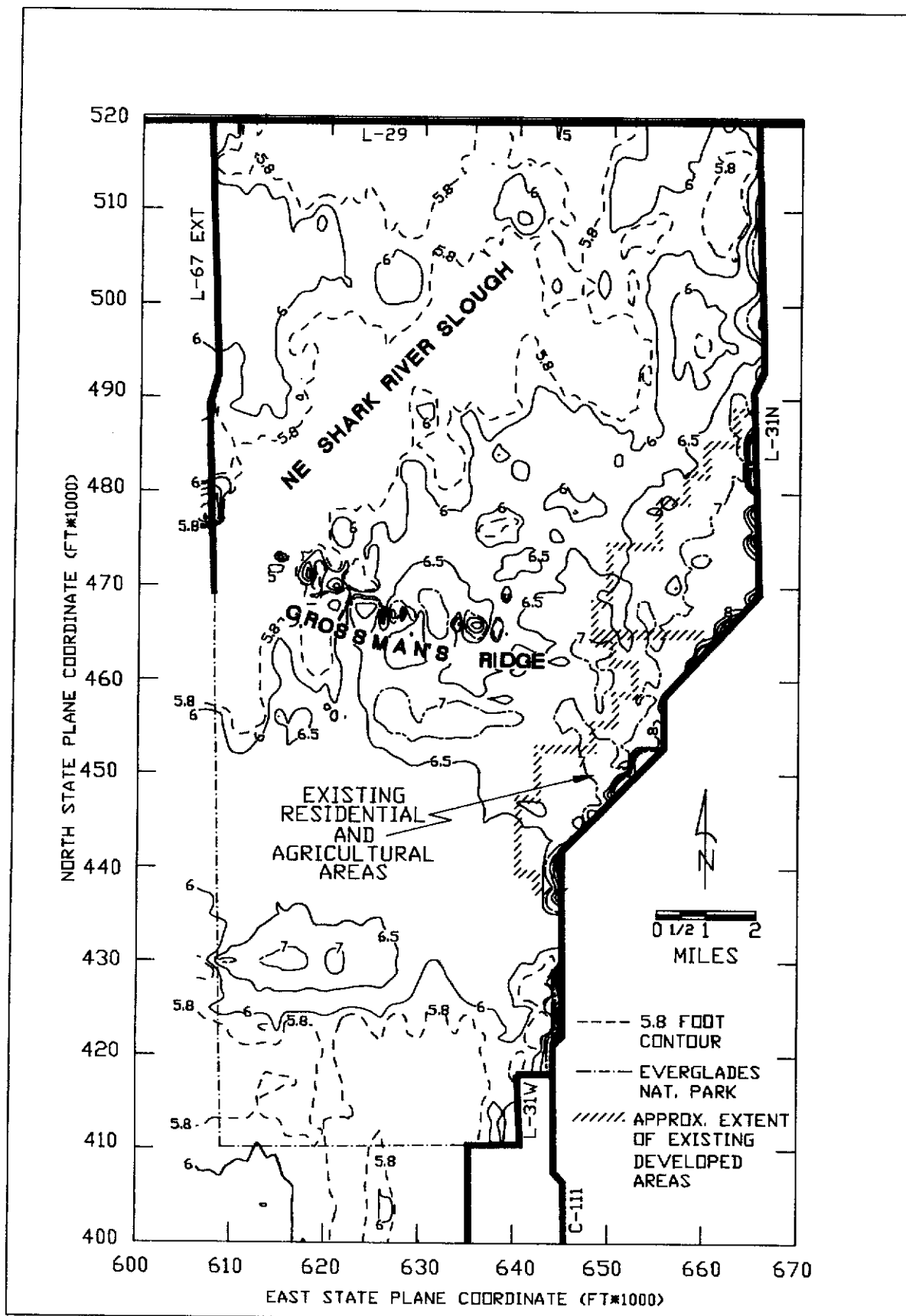


Figure B-1. Topographic Features for the NESRS Area

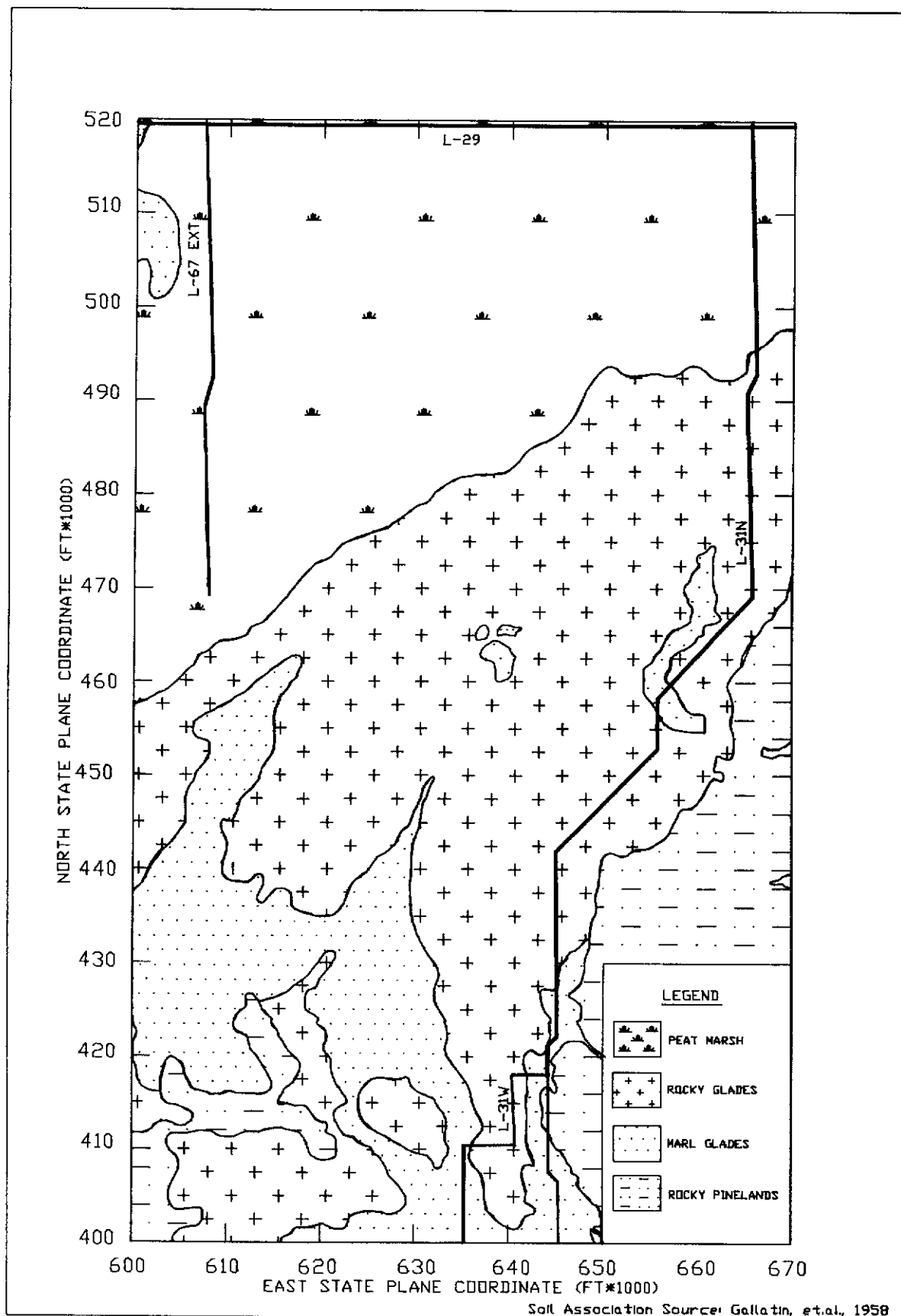


Figure B-2. Soil Associations for the NESRS Area

Table B-1. Soil Types and Characteristics for NESRS Area (1)

Soil Association Area and Soil Types	Drainage Characteristics		Profile Description
	External	Internal	
PEAT MARSH - Very poorly drained organic soils 1a - Loxahatchee Peat	Very slow or none; covered with water most of the year	Medium to slow when freed of high water table	0"-48" soft felty fibrous peat over limestone
Le - Loxahatchee Peat, shallow phase over shallow marl	"	"	6"-36" organic material over 6"-24" marl over limestone
Lf - Loxahatchee Peat, shallow phase over shallow sand	"	"	<36" organic material over 6"-24" fine sand over limestone
Ee - Everglades Peat, shallow phase over shallow marl	Very slow	"	<36" organic material over 3"-24" marl over limestone
ROCKY GLADES - Somewhat poorly to poorly drained rockland Re - Rockland	Very slow or none	Rapid when freed of high water table	0"-6" unconsolidated soil over limestone. Shallow solution holes filled with fine sand and clay loam
MARL GLADES - Poorly to very poorly drained shallow marls Oa - Ochopee fine sandy marl, shallow phase Ph - Perrine marl, very shallow phase	Very slow or none "	Slow when freed of high water table "	0"-10" fine sandy marl over limestone <12" finely-divided calcareous sediments over limestone
ROCKY PINELANDS - Moderately well drained shallow soils Rc - Rockdale fine sandy loam, level phase - limestone complex	Little or no runoff because of rapid infiltration	Very rapid	Scattered small solution holes 2"-24" in depth - Filled with fine sand and clayey limestone residium. Porous limestone exposed in many places

(1)Source: Dade County Soil Survey, Gallatin, et al, 1958

APPENDIX C

NESRS AREA WATER BUDGET - METHODOLOGY FOR ESTIMATING COMPONENTS

This appendix discusses the methods that were used to estimate the hydrologic components of the water budget for the NESRS area during the 1986-87 hydrologic year. Eight components were considered: (1) rainfall, (2) S-333 Discharge, (3) seepage into the L-31N canal from the west, (4) evapotranspiration, (5) seepage into WCA 3B under L-29, (6) seepage under L-67 Extension, (7) the change in surface and groundwater storage, and (8) the combined surface water flow around L-67 Extension and the net regional groundwater flow (Figure 30).

1. Rainfall - NESRS area rainfall was estimated as discussed in Section VI.A. Table 5 presents a monthly and seasonal summary of the rainfall volumes for the 114 square mile NESRS area.

2. S-333 Discharge - flow through S-333 was computed using the structure's discharge rating equation with the gate opening and upstream and downstream water level data. S-333 flows were adjusted for S-334 flows when necessary (refer to section V.B.2). Tables 4 and 5 present summaries of the monthly and seasonal S-333 flows.

3. Seepage into the L-31N canal from the west - L-31N seepage was computed by the method discussed in section VI.D.2.a.2), but the estimates were divided by two in order to consider only the west side of the L-31N canal.

4. Evapotranspiration - ET was estimated using a technique similar to that used by the South Florida Water Management Model (SFWMM) (MacVicar, et al., 1984). The NESRS area was divided into three sub-areas: (1) the slough, (2) the Rocky Glades residential/agricultural area, and (3) the intermediate area between the slough and the residential area. Daily ET volumes were calculated for each of the three areas and summed to represent the total ET for the NESRS area.

The SFWMM uses a function to calculate ET that depends on potential evapotranspiration (PET), the land use type, the depth from the land surface to the shallow and deep root zones, and the depth to the water table. The SFWMM documentation report provides estimates of PET and the root zone depths based on the land use type. For the NESRS area, the following land use types were assumed: (1) slough - Marsh 1; (2) residential/agricultural area - General Agriculture; and (3) intermediate area - Vacant. An average land elevation was computed for each area; and several water level recorders were averaged to estimate the daily water levels for each area.

Results of the ET calculations indicate that the 114 square-mile NESRS area lost about 315,000 acre feet (52 inches) to evapotranspiration during the 1986-87 hydrologic year. The slough has the major contribution to the ET for the area since it usually covers most of the 114 square miles (40 to 90 percent, for water levels from 5.8 ft to 7.0 ft, respectively) and the water table is above the land surface most of the time (ET = PET when ponding occurs).

5. Seepage to WCA 3B under L-29 - seepage under L-29 was estimated using daily water level data from the 3BSE gage and the S-334 headwater. A seepage

factor of 10.8 cfs/ft/mile was assumed (USACOE, 1963). This seepage factor was assumed to be constant for the entire 11.0 mile length of L-29.

6. Seepage under L-67 Extension - seepage under L-67 Extension was estimated for two reaches of the levee: (1) the northern reach (6.0 miles) from S-333 to S-347, and (2) the southern reach (3.5 miles) from S-347 to the end of the levee. Western water levels for the northern reach were estimated as an average of the S-12D tailwater and the L-67XW gage; while eastern water levels were estimated as an average of the S-333 tailwater and the L-67XE gage. The western water levels for the southern reach were estimated by an average of L-67XW and L-67XS; while the eastern levels were estimated as an average of L-67XE and L-67XS. A constant seepage factor of 12 cfs/ft/mile was estimated for both reaches of the levee. This estimated seepage factor is an average of available pump test data for L-29 and L-31N (USACOE, 1973).

7. Change in Surface and Groundwater Storage - The change in surface water and groundwater storage was estimated using the surface water and groundwater data and the NESRS area topographic map (Appendix B). The water levels in the NESRS area did not differ much between the beginning and end of the hydrologic year. However, the average NESRS area water levels were about 1.3 ft higher on November 1, 1986 (beginning of the 1987 dry season) than they were on June 1, 1986 (beginning of 1986 wet season) and May 31, 1987 (end of the 1987 dry season). Based on the topography of the area, this 1.3 ft water level change corresponds to a surface and ground storage change of approximately 60,000 acre feet.

8. Sheetflow around L-67 Extension and the Net Regional Groundwater Flow - Sheetflow around L-67 Extension could not be directly estimated; nor could the inflows and outflows of the regional groundwater system. The net regional groundwater flow term was defined as the regional groundwater inflow minus the outflow, and designated as GW. The GW term was combined with the L-67 Extension sheetflow term (denoted as SW) to define a composite term (SW&GW). This composite term was calculated via the mass balance equation using all the above estimated inflows and outflows, and the storage change. The mass balance equation can be written as:

$$\text{Inflows} - \text{Outflows} = \text{Change in Surface and Ground Storage}$$

where,

$$\text{Inflows} = (\text{Rainfall}) + (\text{S-333 Flow}) + (\text{L-67 Ext. Seepage})$$

and,

$$\text{Outflows} = (\text{ET}) + (\text{L-29 Seepage}) + (\text{L-31N Seepage}) + (\text{SW\&GW})$$

The accuracy of the indirectly calculated composite term, SW&GW, depends on the accuracy of all the other estimates. Since there is uncertainty in some of the estimates (particularly the evapotranspiration and storage change estimates, and the seepage estimates for L-67 Extension and L-29) the results of the water budget should be considered a rough quantification of the actual components. The results can, however, be useful in assessing the relative importance of the components.

APPENDIX D

FIELD DATA

This appendix contains thirteen tables listing the hydrologic and meteorologic data collected from July 11, 1985 through July 11, 1987, the duration of the 2-year test. Discharge data for the period July 12, 1987 through October 31, 1987 are included for S-333 and the S-12 structures.

The data were reported and compiled from a variety of sources. The codes at the top of the column, below the station identifier denote the source:

WMD	South Florida Water Management District
COE	U. S. Army Corps of Engineers
ENP	Everglades National Park
USGS	U. S. Geological Survey
COOP	Cooperative

All water level data are daily averages with the exception of wells G-596, G-1487, G-1502, G-3272, and G-3273 which show the maximum daily water level.

Some data were missing or estimated. These data are tagged:

M	Missing data
P	Summary computed from partial record
E	Estimated
?	Questionable
<	Less than
>	Greater than
T	Trace amount
A	Includes previous days with X
X	Included in next amount tagged A

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
7/11/85	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.02	1.57
7/12/85	0.00 X	0.58	0.08	0.00	0.94	0.60	2.19	0.00	0.00
7/13/85	0.26 A	0.21	0.13	0.00	0.32	0.19	0.76	0.22	1.03
7/14/85	0.23	0.32	0.00	0.10	0.10	0.51	0.66	0.18	0.21
7/15/85	0.08	0.00	0.00	0.35	0.00	0.00	0.21	0.00	0.20
7/16/85	1.48	0.57	0.05	0.14	0.12	0.00	1.71	0.23	0.00
7/17/85	0.01	0.20	0.05	1.08	1.12	1.41	0.24	0.12	0.00
7/18/85	0.00	0.02	0.94	0.42	0.00	0.00	0.01	0.08	0.00
7/19/85	0.42	0.05	0.00	1.92	0.00	0.00	0.50	0.88	0.00
7/20/85	0.14	1.46	1.16	1.32	0.18	0.00	0.00	0.25	0.00
7/21/85	0.00	0.00	0.35	0.35	0.00	2.44	0.15	0.45	0.79
7/22/85	0.25	0.12	0.94	0.14	0.07	0.19	0.43	1.29	0.01
7/23/85	2.69	4.10	3.09	3.82	3.30	2.55	1.75	1.48	2.86
7/24/85	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.52
7/25/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
7/26/85	0.00	0.03	0.17	0.00	0.00	0.06	0.00	0.02	0.00
7/27/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
7/28/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
7/30/85	0.00	0.00	0.00	0.00	0.20	0.70	0.00	0.00	0.00
7/31/85	0.27	0.48	0.01	0.00	1.02	0.00	0.00	0.00	0.00
8/ 1/85	0.00	2.16	1.10	0.00	0.00	0.00	0.02	0.31	0.06
8/ 2/85	0.00	0.00	0.02	0.00	0.00	0.10	0.00	0.01	1.28
8/ 3/85	0.00	0.56	0.37	0.00	0.00	0.00	0.00	0.82	0.01
8/ 4/85	0.00	0.00	0.00	0.00	0.39	0.24	0.00	0.02	0.08
8/ 5/85	0.04	0.00	0.26	1.45	0.14	0.00	0.03	0.00	0.00
8/ 6/85	0.17	0.02	0.00	0.19	0.00	2.05	1.27	0.00	0.62
8/ 7/85	0.00	0.05	0.00	0.63	0.00	0.00	0.11	0.00	0.08
8/ 8/85	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.07
8/ 9/85	0.00	0.06	0.00	0.00	0.27	0.07	1.53	0.19	0.00
8/10/85	0.00	0.05	0.00	0.00	0.07	0.14	0.14	0.00	0.40
8/11/85	0.00	0.72	0.00	0.42	0.00	0.02	0.00	1.62	0.00 X
8/12/85	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.03 A
8/13/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
8/14/85	0.15	0.00	0.09	0.00	0.08	0.10	0.03	0.00	0.13
8/15/85	0.00	0.00	0.06	0.00	0.07	0.13	0.00	0.00	0.00
8/16/85	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
8/17/85	0.17	0.08	0.05	0.04	0.00	0.00	0.00	1.10	0.00
8/18/85	0.19	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00
8/19/85	0.12	0.45	0.22	0.00	0.00	0.00	0.00	2.25	0.00
8/20/85	0.00	0.08	0.00	1.54	0.11	0.01	0.00	0.00	0.38
8/21/85	0.00	0.00	0.00	1.21	0.00	0.08	0.00	0.00	0.00
8/22/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/23/85	0.00	0.00	0.00	0.22	0.00 X	0.00	0.00	0.00	0.00 T
8/24/85	0.00	0.07	0.00	0.00	0.00 X	0.19	0.42	0.00	0.27
8/25/85	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00	0.05	0.00
8/26/85	0.05	0.02	0.01	0.32	0.40 A	0.67	0.26	0.07	0.00 T
8/27/85	0.37	0.23	0.18	0.27	0.34	0.27	0.43	0.09	0.40

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	S-336	S-331	S-332	S-120	S-18C	S-20	S-20F	Homestead	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	Chekika COOP	Exp. Station COOP
8/28/85	1.17	0.33	0.43	0.25	0.17	0.13	0.25	0.53	0.10
8/29/85	1.43	0.71	0.32	0.15	0.20	0.93	0.98	0.00	0.79
8/30/85	M	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00 T
8/31/85	0.00	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00
9/ 1/85	0.00	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00
9/ 2/85	0.24	0.00	0.00	0.00 X	1.37	0.00	0.00	0.00	0.00 T
9/ 3/85	0.29	0.00	0.00	0.18 A	1.61	2.62	0.05	0.08	0.02
9/ 4/85	4.02	0.00	0.03	0.00	0.41	0.00	0.00	0.00	0.03
9/ 5/85	0.04	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.02
9/ 6/85	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.01
9/ 7/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X
9/ 8/85	0.30	0.89	0.66	0.61	0.12	0.08	0.08	0.67	0.43 A
9/ 9/85	0.11	0.06	0.08	0.48	0.29	0.17	0.73	0.00	0.36
9/10/85	0.00	0.00	0.04	0.00	0.02	0.00	0.00	0.00	0.02
9/11/85	0.00	0.78	0.67	0.16	0.17	0.20	0.05	0.54	0.00
9/12/85	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.64	0.39
9/13/85	0.06	0.25	0.14	0.14	0.07	0.60	0.10	0.04	0.01
9/14/85	0.20	0.11	0.00	0.39	0.28	0.05	0.03	0.00	0.72
9/15/85	0.18	0.00	0.00	0.00	0.10	0.00	0.00	0.32	0.14
9/16/85	1.88	2.09	2.43	0.14	1.32	1.46	1.67	2.29	0.07
9/17/85	0.61	0.02	0.06	0.16	0.18	0.18	0.12	1.25	1.22
9/18/85	0.96	0.48	0.75	0.32	0.44	0.55	1.18	0.34	1.94
9/19/85	0.43	2.78	0.32	0.16	0.79	0.96	0.58	1.26	0.04
9/20/85	0.05	0.12	0.09	0.05	0.23	1.30	0.59	0.10	0.58
9/21/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/22/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/23/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/85	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.03	0.00
9/27/85	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.18
9/28/85	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.01	0.00 T
9/29/85	0.14	0.01	1.03	0.00	0.02	0.19	0.00	0.05	0.26
9/30/85	0.00	0.32	0.29	0.08	0.80	1.32	0.13	0.60	0.20
10/ 1/85	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.19
10/ 2/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/ 3/85	0.05	0.00	0.00	0.74	0.00	0.00	0.06	0.03	0.00
10/ 4/85	1.25	0.09	1.75	0.31	0.20	0.45	0.64	0.41	0.00 T
10/ 5/85	0.05	0.79	0.05	0.00	0.00	0.00	0.04	0.10	0.03
10/ 6/85	0.00	0.00	0.05	0.03	0.16	0.55	2.18	0.45	0.00 X
10/ 7/85	0.00	0.00	0.30	0.00	0.14	0.00	0.00	0.00	0.25 A
10/ 8/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/ 9/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
10/10/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/85	0.00	0.00	0.00	0.00	0.01	0.57	0.35	0.00	0.63
10/12/85	0.00	0.00	0.09	0.00	0.00	0.00	0.26	0.00	0.00
10/13/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
10/14/85	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336 WMD	S-331 WMD	S-332 WMD	S-12D WMD	S-18C WMD	S-20 WMD	S-20F WMD	Chekika COOP	
10/15/85	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.02	0.00
10/16/85	0.00	0.00	0.20	0.00	0.00	0.31	0.00	0.00	0.11
10/17/85	0.00	0.04	0.13	0.00	0.36	0.40	0.02	0.00	0.09
10/18/85	0.00	0.00	0.00	0.00	0.02	0.24	0.18	0.00	0.05
10/19/85	0.46	0.38	0.00 X	1.11	2.06	0.16	0.76	0.67	0.14
10/20/85	0.05	0.06	0.00 X	0.00	0.00	0.10	0.05	0.05	1.20
10/21/85	0.11	0.02	1.00 A	0.07	0.00	0.00	0.07	0.24	0.11
10/22/85	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.15
10/23/85	0.00	0.00	0.17	0.00	0.13	0.00	0.00	0.35	0.01
10/24/85	0.19	0.27	0.02	0.03	0.05	0.18	0.00	0.06	0.34
10/25/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
10/26/85	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00 X
10/27/85	0.16	0.23	0.18	1.69	0.26	0.40	0.00	1.85	0.00 X
10/28/85	0.00	0.00	0.00	0.00	0.00	0.16	0.00 X	0.00	0.63 A
10/29/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.14
10/30/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00
10/31/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00 T
11/ 1/85	0.00	0.00	0.00 X	0.12	0.22	0.16	0.12 A	0.00	0.00
11/ 2/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
11/ 3/85	0.00	0.12	0.00 X	0.48	0.07	0.00	0.00	0.20	0.00
11/ 4/85	0.03	0.00	0.31 A	0.00	0.45	0.09	0.56	0.00	0.33
11/ 5/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 6/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 7/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 8/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 9/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/85	0.00	0.01	0.00 X	0.00	0.00	0.00	0.00	0.00	0.20
11/13/85	0.00	0.05	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00 T
11/14/85	0.09	0.00	0.00 X	0.09	0.00	0.00	0.03	0.06	0.00
11/15/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.04	0.00	0.02
11/16/85	0.00	0.00	0.00 X	0.00	0.18	0.00	0.00	0.00	0.02
11/17/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.01
11/18/85	0.23	0.10	0.46 A	0.00	0.03	0.11	0.02	0.54	0.00 T
11/19/85	0.44	0.99	0.00 X	0.75	1.68	0.64	0.16	0.78	0.22
11/20/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.03	0.00	0.82
11/21/85	0.00	0.01	0.00 X	0.00	0.04	0.05	0.00	0.00	0.02
11/22/85	0.37	0.34	0.00 X	0.00	0.13	0.23	0.19	0.00	0.00
11/23/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.23	0.17
11/24/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.01
11/25/85	0.00	0.00	2.05 A	0.00	0.00	0.00	0.00	0.00	0.00
11/26/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
11/27/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/30/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 1/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Homestead	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	Chekika	Exp. Station
12/ 2/85	0.00	0.00	0.00 X	M	0.00	0.00	0.00	0.00	0.00
12/ 3/85	0.00	0.00	0.00 X	M	0.00	0.00	0.00	0.00	0.00
12/ 4/85	0.00	0.59	0.00 X	M	0.56	0.31	1.66	0.00	0.00
12/ 5/85	0.51	0.44	0.00 X	M	1.20	1.58	1.35	0.84	0.66
12/ 6/85	0.00	0.00	0.00 X	M	0.00	0.00	0.01	0.00	0.32
12/ 7/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
12/ 8/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
12/ 9/85	0.00	0.00	0.40 A	0.00	0.00	0.00	0.00	0.00	0.00
12/10/85	0.00	0.00	0.00 X	0.00	0.00	0.03	0.00	0.00	0.00
12/11/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00 T
12/12/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
12/13/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
12/14/85	0.00	0.12	0.00 X	0.19	0.00	0.00	0.00	0.16	0.00
12/15/85	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.08
12/16/85	0.00	0.05	0.17 A	0.03	0.04	0.04	0.17	0.23	0.00
12/17/85	0.00	0.07	0.05	0.00	0.12	0.53	0.45	0.00	0.15
12/18/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/19/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
12/20/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/85	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/22/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
12/23/85	0.00	0.00	0.00	0.03	0.03	0.04	0.04	0.09	0.00
12/24/85	0.08	0.44	0.30	0.02	0.18	0.10	0.25	0.31	0.07
12/25/85	0.05	0.05	0.00	0.03	0.05	0.03	0.05	0.00	0.50
12/26/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
12/27/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/28/85	0.38	0.25	0.03	0.22	0.72	0.90	0.74	0.32	0.00
12/29/85	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.11
12/30/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 1/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 2/86	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
1/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
1/ 5/86	0.02	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00 T
1/ 6/86	0.05	0.00	0.00	0.00	0.05	0.40	0.16	0.00	0.00
1/ 7/86	0.05	0.00	1.09	0.69	0.24	0.00	0.00	0.34	0.02
1/ 8/86	0.92	0.81	0.36	0.40	0.31	0.49	0.30	0.36	0.36
1/ 9/86	0.65	0.83	0.43	0.76	0.68	0.65	0.57	1.70	0.74
1/10/86	0.09	0.08	0.06	0.12	0.06	0.02	0.10	0.20	1.37
1/11/86	0.12	0.24	0.34	0.35	0.24	0.04	0.06	0.00	0.52
1/12/86	0.10	0.21	0.28	0.03	0.24	0.49	0.31	0.21	0.00
1/13/86	0.06	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.41
1/14/86	0.00	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00
1/15/86	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
1/16/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/86	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
1/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
1/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/21/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/86	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.05	0.00 X
1/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 A
1/28/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 1/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 7/86	0.15	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
2/ 8/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
2/ 9/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/10/86	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
2/11/86	0.00	0.00	0.00 X	0.00	0.47	0.44	0.31	0.10	0.00
2/12/86	0.00	0.10	0.00 X	0.13	0.22	0.27	0.43	0.00	0.25
2/13/86	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
2/14/86	0.00	0.00	0.00 X	0.00	0.00	0.00	0.62	0.00	0.00
2/15/86	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
2/16/86	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
2/17/86	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00	0.00
2/18/86	1.83	1.15	0.85 A	1.18	0.34	0.69	0.13	0.00	0.53
2/19/86	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
2/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/22/86	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00 T
2/23/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/26/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/86	0.00	0.04	0.02	0.02	0.06	0.02	0.02	0.00	0.00
3/ 1/86	0.00	0.06	0.07	0.08	0.05	0.06	0.02	0.00	0.09
3/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.00
3/ 5/86	0.00	0.04	0.00	0.00	0.00	0.02	0.00	0.00	0.07
3/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date								Homestead	
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	Exp. Station
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
3/ 8/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 9/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00
3/10/86	4.53	1.79	1.40	3.35	0.00	0.24	0.72	2.01	1.05
3/11/86	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
3/12/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83
3/13/86	0.19	0.07	0.30	0.78	0.43	0.00	0.11	0.45	0.00 T
3/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
3/15/86	0.05	0.09	0.48	0.12	0.09	0.03	0.19	0.00	0.00
3/16/86	0.73	0.00	0.01	0.15	0.06	0.07	0.18	0.10	0.00
3/17/86	0.09	0.31	0.08	0.09	0.08	0.21	0.00	0.00	0.53
3/18/86	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.38
3/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/21/86	0.60	0.82	0.57	1.55	0.22	0.43	0.61	0.00	0.65
3/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
3/23/86	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
3/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
3/25/86	0.00	0.03	0.00	0.19	0.00	0.04	0.02	0.96	0.00 T
3/26/86	1.72	2.60	1.55	0.34	1.37	1.28	0.83	2.15	0.25
3/27/86	0.89	1.61	0.00	0.00	0.00	0.34	0.35	1.78	2.45
3/28/86	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88
3/29/86	0.00	0.00	0.06	0.00	0.20	0.00	0.00	0.00	0.04
3/30/86	0.92	0.96	0.15	0.00	0.00	0.00	0.03	0.34	0.18
3/31/86	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
4/ 1/86	0.02	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
4/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
4/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
4/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
4/ 8/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 9/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/11/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/12/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00
4/13/86	0.82	0.75	2.14	1.05	0.70	1.16	0.87	0.00	0.94
4/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/21/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/23/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
4/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/26/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 1/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 4/86	0.00	0.97	0.54	0.00	0.00	0.25	0.00	0.34	0.00 X
5/ 5/86	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10 A
5/ 6/86	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.08
5/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 8/86	0.00	0.61	0.15	0.00	0.00	0.00	0.00	1.05	0.00
5/ 9/86	0.48	0.00	0.00	0.14	0.00	0.00	0.00	0.02	0.54
5/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/11/86	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/86	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/13/86	0.05	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
5/14/86	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
5/15/86	0.13	0.37	0.17	0.12	0.00	0.00	0.00	0.14	0.01
5/16/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
5/17/86	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
5/18/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/86	0.00	0.00	1.25	0.06	0.20	0.00	0.00	0.00	0.00
5/21/86	0.35	2.90	0.00	0.10	0.00	0.00	0.01	0.45	0.75
5/22/86	0.04	3.25	0.10	2.25	1.03	0.20	0.36	0.02	0.79
5/23/86	0.00	0.09	0.02	0.00	0.00	0.00	0.28	0.53	0.38
5/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
5/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 1/86	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.05
6/ 2/86	0.18	0.00	0.00	0.19	0.00	0.00	0.00	0.72	0.00
6/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
6/ 4/86	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 6/86	0.00	0.10	0.00	0.15	0.00	0.00	0.00	0.00	0.00
6/ 7/86	0.00	0.00	1.43	0.12	0.75	0.14	4.27	0.15	0.04
6/ 8/86	1.25	1.05	0.85	0.21	0.75	0.56	0.38	0.00	2.58
6/ 9/86	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
6/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
6/11/86	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336 WMD	S-331 WMD	S-332 WMD	S-12D WMD	S-18C WMD	S-20 WMD	S-20F WMD	Chekika COOP	
6/12/86	0.39	0.04	0.00	1.46	0.00	0.00	0.00	5.47	0.00
6/13/86	0.00	0.51	2.64	0.00 X	0.00	0.00	0.00	0.04	0.00 T
6/14/86	0.25	0.00	0.00	0.00 X	0.00	0.00	0.00	0.03	0.03
6/15/86	0.31	0.31	0.17	0.00 X	0.14	0.40	0.10	1.01	0.06
6/16/86	0.05	0.06	0.01	2.90 A	0.00	0.25	0.15	1.65	2.17
6/17/86	0.00	0.30	0.25	0.00	1.00	0.97	0.51	0.12	0.02
6/18/86	0.03	0.08	0.00	0.14	0.00	0.00	0.27	0.00	0.14
6/19/86	0.90	0.93	0.08	2.21	0.00	1.81	0.71	2.44	0.00
6/20/86	0.58	0.56	0.22	0.63	0.21	0.00	0.09	1.13	0.97
6/21/86	0.05	0.00	3.05	0.11	1.23	0.07	0.67	0.00	0.03
6/22/86	0.15	0.05	0.06	0.12	0.37	2.55	0.00	0.07	1.17
6/23/86	0.08	1.51	0.31	0.00	1.80	0.09	0.00	0.10	0.44
6/24/86	0.00	0.01	0.02	0.39	0.03	0.30	0.91	0.00	1.70
6/25/86	0.00	0.00	0.00	0.61	0.03	0.00	0.07	0.00	0.13
6/26/86	0.00	0.80	0.45	0.12	0.17	0.00	0.00	0.46	0.00
6/27/86	0.09	0.05	0.74	0.89	0.00	0.00	0.03	0.00	0.23
6/28/86	0.00	1.26	0.00	0.00	0.14	0.54	0.14	0.18	0.41
6/29/86	0.58	1.14	0.00	0.92	0.12	0.00	0.03	0.26	0.66
6/30/86	0.06	0.02	0.00	0.58	0.00	0.00	0.14	0.18	0.04
7/ 1/86	0.24	0.00	0.17	0.02	0.00	0.00	0.00	0.00	0.00
7/ 2/86	0.00	0.48	0.04	0.00	0.73	0.04	2.17	1.50	0.30
7/ 3/86	0.90	0.09	0.15	0.07	0.32	0.15	0.08	0.00	0.09
7/ 4/86	1.03	0.14	0.00	0.07	0.00	0.00	0.00	1.60	0.14
7/ 5/86	0.00	0.11	0.14	0.43	0.10	0.05	0.03	0.25	0.00
7/ 6/86	0.18	0.03	0.00	0.13	0.00	0.00	0.12	0.30	0.00
7/ 7/86	0.29	0.01	0.56	0.38	0.13	0.35	0.00	0.15	0.06
7/ 8/86	0.20	0.00	0.00	0.09	0.08	0.00	0.00	0.83	0.13
7/ 9/86	0.00	0.61	1.25	0.00	0.00	0.00	0.07	0.60	0.00
7/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.55
7/11/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10
7/12/86	0.00	0.04	0.00	0.00	0.14	0.00	0.00	0.00	0.00
7/13/86	0.30	0.00	M	0.06	0.00	0.03	0.05	0.02	0.00
7/14/86	0.00	0.00	M	0.00	0.00	0.00	0.00	0.00	0.00
7/15/86	0.00	0.00	M	0.00	0.00	0.00	0.00	0.00	0.00
7/16/86	0.00	0.00	M	0.00	0.00	0.00	0.00	0.00	0.00
7/17/86	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.09	0.02
7/18/86	0.00	0.04	0.00	0.25	0.00	0.00	0.00	0.90	0.00
7/19/86	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.01	0.00
7/20/86	0.05	0.00	0.20	0.04	0.00	0.13	0.00	0.00	0.00
7/21/86	0.00	0.00	0.04	0.06	0.00	0.00	0.00	0.00	0.35
7/22/86	0.35	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00
7/23/86	0.67	0.05	0.06	0.00	0.00	0.00	0.00	0.28	0.00
7/24/86	0.00	0.00	0.58	0.00	0.00	0.23	0.00	0.00	0.26
7/25/86	0.95	0.20	0.10	0.00	0.00	0.52	0.12	0.08	0.33
7/26/86	0.00	0.47	0.00	2.34	0.15	0.00	0.00	1.41	0.04
7/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00 X
7/28/86	0.00	0.00	0.64	1.18	0.00	0.00	0.94	0.02	0.02 A
7/29/86	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00 T

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-120	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
7/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/86	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
8/ 1/86	0.25	0.32	0.00	1.36	0.00	0.00	0.00	0.87	0.00
8/ 2/86	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00
8/ 3/86	0.04	0.01	0.00	1.44	0.00	0.00	0.00	0.00	0.00
8/ 4/86	0.15	1.83	2.51	0.51	0.00	0.00	0.08	0.30	0.00
8/ 5/86	0.00	0.00	0.16	0.00	0.08	1.11	0.69	0.00	1.99
8/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.16
8/ 7/86	0.00	0.02	0.27	0.06	0.42	0.06	0.05	0.01	0.00
8/ 8/86	0.00	0.00	0.00	0.00 X	0.00	0.00	0.00	0.00	0.00
8/ 9/86	0.00	0.06	0.05	0.00 X	0.00	0.02	0.00	0.11	0.06
8/10/86	0.33	0.48	0.07	0.00 X	0.00	0.00	0.16	1.45	0.00 X
8/11/86	0.71	0.30	0.27	1.11 A	0.29 X	0.00	0.25	0.02	0.39 A
8/12/86	0.00	0.41	0.02	0.00	0.00 X	0.11	0.11	0.01	0.00
8/13/86	0.52	0.08	0.09	0.04	0.00 X	0.47	0.84	0.00	0.03
8/14/86	0.02	0.00	0.00	0.00	0.00 X	0.00	0.00	0.00	0.02
8/15/86	0.00	0.00	0.23	0.66	0.00 X	0.00	0.00	0.68	0.00
8/16/86	1.98	1.36	0.96	0.28	0.00 X	0.98	1.29	0.38	0.72
8/17/86	0.09	1.40	0.34	0.90	0.00 X	0.84	1.21	1.55	0.00 X
8/18/86	0.04	0.60	0.19	0.68	4.49 A	0.12	0.02	0.73	1.48 A
8/19/86	0.00	0.33	0.17	0.17	0.09	0.37	0.02	0.07	0.17
8/20/86	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.31
8/21/86	0.00	0.00	0.33	0.45	0.28	0.00	0.15	0.01	0.00
8/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
8/23/86	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/24/86	0.50	0.36	0.08	0.00	0.00	0.00	0.00	0.84	0.00
8/25/86	0.10	0.10	0.00	0.05	0.00	0.85	0.02	0.06	0.00
8/26/86	0.23	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.02
8/27/86	0.00	0.00	0.15	0.08	0.00	0.00	0.00	0.00	0.00
8/28/86	0.00	0.57	0.00	0.17	0.00	0.00	0.00	0.00	0.00
8/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/30/86	0.00	0.09	0.58	0.00	0.20	0.00	0.12	0.00	0.00 X
8/31/86	0.00	0.60	0.09	0.15	0.15	0.00	0.11	0.21	0.75 A
9/ 1/86	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.13	0.00
9/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/ 3/86	0.00	0.00	0.42	1.24	1.28	0.00	0.00	0.04	0.00
9/ 4/86	0.75	0.64	2.26	0.21	0.59	0.65	0.80	0.03	0.18
9/ 5/86	0.28	0.00	0.11	0.08	0.00	0.00	0.00	0.02	0.22
9/ 6/86	0.42	0.45	0.30	0.72	0.27	0.15	0.20	0.11	0.00
9/ 7/86	0.00	0.18	0.11	0.00	0.01	0.00	0.12	0.96	1.99
9/ 8/86	0.21	0.01	0.01	0.00	0.00	0.00	0.00	0.56	0.43
9/ 9/86	0.52	0.71	0.00	0.00	0.00	0.00	0.00	0.00	2.55
9/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00
9/13/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
9/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/15/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Homestead	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	Chekika	Exp. Station
9/16/86	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/17/86	0.00	0.13	0.43	0.00	0.42	0.00	0.00	0.00	0.00
9/18/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
9/19/86	M	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00
9/20/86	0.12	0.00	0.00	0.83	0.06	0.00	0.00	0.00	0.04
9/21/86	0.38	0.07	0.40	0.00	0.18	0.56	0.00	0.23	2.54
9/22/86	0.07	0.00	0.13	0.03	0.02	0.00	1.68	0.33	0.00
9/23/86	0.12	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.52
9/24/86	0.05	0.00	0.00	0.58	0.00	0.03	0.05	0.00	0.28
9/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
9/26/86	0.00	0.00	0.00	0.29	0.02	0.00	0.00	0.00	0.00
9/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/86	0.00	0.00	0.00	0.00	0.19	0.20	0.00	0.00	0.00
9/29/86	0.00	0.00	0.00	0.08	0.00	0.18	0.00	0.07	0.25
9/30/86	0.10	0.65	0.13	0.22	0.78	0.27	0.00	0.47	0.00
10/ 1/86	0.00	0.15	0.00	0.00	0.00	0.00	0.11	0.16	0.00
10/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/ 4/86	0.00	0.00	0.00	0.32	0.00	0.06	0.00	0.00	0.00 X
10/ 5/86	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00 X
10/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22 A
10/ 7/86	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
10/ 8/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/ 9/86	0.00	0.09	0.00	0.00	0.00	0.05	0.00	0.00	0.00
10/10/86	0.76	0.00	0.00	0.17	0.00	0.00	0.00	0.19	0.00
10/11/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/12/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/13/86	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
10/14/86	0.00	0.00	0.09	0.00	0.00	0.00	0.49	0.00	0.00
10/15/86	0.00	0.25	1.49	0.26	0.86	0.63	0.40	0.70	0.00
10/16/86	0.00	0.00	0.08	0.00	0.17	0.20	0.03	0.00	0.59
10/17/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/18/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/19/86	0.00	0.09	0.12	0.44	0.46	0.77	1.30	0.00	0.00 X
10/20/86	0.00	0.00	0.00	0.00	0.05	0.64	0.00	0.00	0.07 A
10/21/86	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01
10/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/23/86	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/26/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/27/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/28/86	0.29	1.06	0.17	0.56	0.00	0.00	0.00	1.80	0.00
10/29/86	0.08	0.36	0.17	0.42	0.00	0.00	0.00	0.42	0.20
10/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.03
10/31/86	0.00	0.03	0.00	0.03	0.00	0.00	0.01	0.12	0.00
11/ 1/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X
11/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00 X

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
11/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01 A
11/ 4/86	0.00	0.23	0.00	0.00	0.06	0.03	0.21	0.00	0.00 T
11/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
11/ 6/86	0.00	0.03	0.03	0.00	0.27	0.17	0.70	0.02	0.25
11/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 8/86	0.01	0.00	0.00	0.17	0.00	0.05	0.00	0.02	0.00 T
11/ 9/86	0.02	0.00	0.11	0.04	0.09	0.27	0.00	0.00	0.00
11/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.05
11/11/86	0.00	0.18	0.00	0.05	0.00	0.00	0.00	0.00	0.00
11/12/86	0.00	0.01	0.00	0.00	0.33	0.00	0.11	0.00	0.00 T
11/13/86	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.06	0.00 X
11/14/86	0.85	0.35	0.41	1.50	0.25	0.09	0.00	0.78	0.06 A
11/15/86	0.00	0.04	0.15	0.00	0.05	0.07	0.00	0.00	0.32
11/16/86	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/86	0.04	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00 T
11/18/86	0.00	0.00	0.00	M	0.00	0.00	0.00 X	0.00	0.00 T
11/19/86	0.00	0.00	0.00	M	0.00	0.00	0.00 X	0.00	0.00
11/20/86	0.00	0.00	0.00	M	0.00	0.00	0.00 X	0.00	0.00
11/21/86	0.00	0.00	0.00	M	0.00	0.00	0.00 X	0.00	0.00 T
11/22/86	1.31	0.65	0.20	0.00	1.43	2.77	0.00 X	0.00	0.00
11/23/86	0.00	0.02	0.00	0.00	0.00	0.00	0.00 X	0.00	0.55
11/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.49 A	0.00	0.00
11/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
11/27/86	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/28/86	0.39	0.13	0.24	0.00	0.12	0.46	0.00	0.84	0.00 T
11/29/86	0.27	0.45	0.13	0.10	0.81	0.54	0.54	0.00	1.54
11/30/86	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
12/ 1/86	0.21	0.36	0.25	0.05	0.00	0.83	1.10	0.29	0.00
12/ 2/86	0.00	0.04	0.16	0.00	0.05	0.00	0.14	0.12	0.72
12/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
12/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/ 5/86	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.04	0.00
12/ 6/86	0.00	0.50	0.00	0.00	0.00	0.00	0.10	0.00	0.02
12/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X
12/ 8/86	0.00	0.00	0.00	0.00	0.00	0.03	0.00 X	0.00	0.11 A
12/ 9/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00
12/10/86	0.00	0.00	0.00	0.00	0.00	0.03	0.00 X	0.00	0.00
12/11/86	0.33	0.44	0.00	0.00	0.16	0.10	0.00 X	0.00	0.04
12/12/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.18
12/13/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00
12/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00 X
12/15/86	0.00	0.00	0.00	0.00	0.18	0.00	0.39 A	0.00	0.12 A
12/16/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
12/17/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18/86	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
12/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
12/21/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/22/86	0.00	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00
12/23/86	0.00	0.04	0.20	0.00	0.04	0.12	0.07	0.58	0.00
12/24/86	0.23	0.50	1.43	1.17	1.00	1.04	0.90	0.01	0.35
12/25/86	0.00	0.00	0.02	0.00	0.07	0.21	0.05	0.00	1.20
12/26/86	0.18	0.08	0.02	0.21	0.00	0.01	0.44	0.33	0.09
12/27/86	0.42	0.40	0.31	0.96	0.29	0.25	0.13	0.60	0.13
12/28/86	0.00	0.15	0.03	0.00	0.30	0.20	0.18	0.33	0.00 X
12/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.23 A
12/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00 T
12/31/86	0.96	0.86	0.62	0.83	1.13	2.43	0.00 X	0.33	0.00 T
1/ 1/87	0.06	1.69	0.44	0.00	0.22	0.36	0.00 X	0.00	1.05
1/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00
1/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X	0.00	0.00
1/ 4/87	0.28	0.55	0.59	0.37	0.01	0.05	0.00 X	0.27	0.00
1/ 5/87	0.00	0.00	0.06	0.04	0.11	0.03	1.66 A	0.00	0.60
1/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 7/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/10/87	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
1/11/87	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
1/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
1/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/87	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
1/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/19/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/87	0.00	0.09	0.23	0.00	0.03	0.03	0.04	0.03	0.00
1/23/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39
1/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00 X
1/25/87	0.07	0.07	0.05	0.13	0.00	0.00	0.00	0.00	0.01 A
1/26/87	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/30/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 1/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 5/87	0.15	0.05	0.00	0.34	0.00	0.00	0.00	0.24	0.00 T
2/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.02

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
2/ 7/87	0.14	0.35	0.16	0.15	0.79	0.62	0.72	0.07	0.00 X
2/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.22 A
2/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/87	0.03	0.10	0.04	0.11	0.11	0.16	0.32	0.00	0.00
2/16/87	0.00	0.11	0.02	0.00	0.10	0.00	0.05	0.00	0.13
2/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
2/18/87	0.08	0.00	0.00	0.79	0.10	0.49	0.12	0.00	0.01
2/19/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
2/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X
2/22/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03 A
2/23/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/87	0.00	0.04	0.00	0.00	0.00	0.00	0.07	0.00	0.00
2/25/87	0.00	0.09	0.28	0.00	0.89	0.43	0.19	0.00	0.07
2/26/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
2/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 1/87	0.19	0.20	0.10	0.89	0.00	0.00	0.00	0.16 A	0.00
3/ 2/87	0.34	0.84	0.40	0.33	0.84	0.58	0.58	0.72	0.10
3/ 3/87	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.47
3/ 4/87	0.00	0.00	0.19	0.00	0.29	1.95	2.17	0.00	0.05
3/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 6/87	0.70	0.82	0.74	1.10	0.54	0.38	0.38	3.00	0.03
3/ 7/87	1.48	0.92	0.76	4.74	1.04	0.64	1.56	0.16	1.62
3/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
3/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
3/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
3/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/19/87	0.00	0.00	0.00	0.00	0.60	0.63	0.00	0.00	0.00
3/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/22/87	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.66	0.00 X
3/23/87	0.33	0.26	0.30	0.18	0.00	0.00	0.00	0.02	0.33 A
3/24/87	0.57	0.50	0.93	0.62	0.77	0.79	0.75	0.96	0.03
3/25/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66
3/26/87	0.38	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
3/27/87	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
3/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/29/87	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00
3/30/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00
3/31/87	1.12	0.29	0.43	0.80	0.22	0.10	0.29	0.00	0.30
4/ 1/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 7/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
4/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
4/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
4/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
4/17/87	0.29	0.00	0.03	0.09	0.10	0.17	0.06	0.05	0.00
4/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
4/19/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/23/87	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
4/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/26/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 1/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 7/87	0.23	0.10	0.44	0.64	0.75	0.34	0.62	1.59	0.00
5/ 8/87	0.32	1.29	0.41	0.00	1.13	0.16	0.00	0.49	1.08
5/ 9/87	0.06	0.29	0.04	0.59	0.00	0.00	0.09	1.20	0.74
5/10/87	0.43	0.66	1.73	0.46	0.00	0.18	0.06	0.09	0.00 X
5/11/87	0.06	0.00	0.00	0.00	0.02	0.00	1.97	0.00	0.46 A
5/12/87	0.29	0.00	0.17	0.00	0.70	0.00	0.88	0.06	0.41
5/13/87	0.26	0.00	2.40	0.12	0.40	0.00	0.97	0.02	0.00 T

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	Homestead								Exp. Station
	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Chekika	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	COOP	COOP
5/14/87	0.00	0.00	0.00	0.81	0.08	0.00	0.02	0.22	3.10
5/15/87	0.00	0.00	0.03	0.17	0.00	0.00	0.00	0.24	0.27
5/16/87	0.00	0.00	0.08	0.00	0.00	0.52	0.23	0.00	0.31
5/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/87	0.10	0.00	0.00	0.00	0.10	0.00	0.24	0.00	0.00
5/19/87	0.00	0.00	0.17	0.00	1.84	0.00	0.47	0.05	0.04
5/20/87	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
5/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
5/22/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/23/87	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06	0.00
5/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/25/87	0.23	0.00	0.00	0.15	0.00	0.00	0.00	0.03	0.00
5/26/87	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.00
5/27/87	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.01
5/28/87	0.00	0.00	0.21	0.00	0.00	0.00	0.02	0.00	0.00
5/29/87	0.00	0.20	0.11	0.00	0.00	0.03	0.14	0.09	0.27
5/30/87	0.00	0.02	0.09	0.00	0.00	0.04	0.01	0.19	0.00
5/31/87	0.00	0.00	0.07	0.00	0.04	0.00	0.05	0.01	0.16
6/ 1/87	0.00	0.04	0.33	1.49	0.10	0.00	0.00	0.20	0.00 T
6/ 2/87	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00
6/ 7/87	0.45	0.94	0.00	0.00	0.00	0.00	0.07	0.02	0.00
6/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
6/ 9/87	M	0.27	0.00	0.22	0.00	0.13	1.44	0.01	0.00
6/10/87	M	0.00	0.00	0.37	0.00	0.00	0.00	0.20	0.38
6/11/87	M	0.43	0.06	0.00	0.00	0.00	0.00	0.00	0.16
6/12/87	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/87	0.00	1.49	0.00	0.85	0.12	0.00	0.00	0.01	0.00
6/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/19/87	0.00	0.00	0.11	0.00	0.00	0.08	0.00	0.00	0.00
6/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
6/22/87	0.08	0.22	0.00	0.34	0.00	0.12	0.06	0.11	0.00
6/23/87	0.66	0.32	0.00	0.00	0.00	0.07	0.03	1.17	0.00
6/24/87	0.00	0.00	0.07	0.00	0.00	1.63	0.04	0.00	0.12
6/25/87	0.17	0.29	0.66	0.76	0.81	1.20	0.82	0.03	0.07
6/26/87	0.80	1.19	0.00	0.67	0.35	0.07	0.12	0.42	0.23
6/27/87	2.82	5.43	0.11	0.00	0.00	0.61	0.27	1.60	0.02
6/28/87	0.26	1.66	0.55	0.31	0.00	0.00	0.36	1.32	0.00
6/29/87	0.32	0.68	0.42	0.67	0.33	0.25	0.00	1.56	1.10
6/30/87	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18

Table D.1 Daily Rainfall (Inches), East Everglades Area,
from July 11, 1985 through July 11, 1987.

Date	S-336	S-331	S-332	S-12D	S-18C	S-20	S-20F	Homestead	
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	Chekika COOP	Exp. Station COOP
7/ 1/87	0.00	0.14	0.00	0.18	0.00	0.00	0.11	0.03	0.03
7/ 2/87	0.00	0.00	0.00	0.06	0.03	0.00	0.21	0.00	0.00 T
7/ 3/87	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.29	0.00 X
7/ 4/87	0.00	0.48	0.02	0.00	0.04	0.12	0.00	0.00	0.56 A
7/ 5/87	0.00	0.00	0.01	0.00	0.04	0.00	0.00	0.05	0.21
7/ 6/87	0.00	0.00	0.00	0.86	0.00	0.10	0.04	0.00	0.00
7/ 7/87	0.00	0.08	0.27	0.00	0.00	0.00	0.20	0.00	0.02
7/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
7/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 X

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201 ENP	NP-203 ENP	NP-206 ENP	P-34 ENP	P-35 ENP	P-36 ENP	P-38 ENP
7/11/85	M	0.00	0.00	0.17	0.55	0.00	0.00
7/12/85	0.00	0.00	0.67	1.18	0.00	0.10	0.08
7/13/85	0.00	0.00	0.04	0.83	0.72	0.00	0.30
7/14/85	0.00	0.00	0.40	0.24	0.25	0.00	0.00
7/15/85	0.00	0.22	0.48	0.16	0.00	0.00	0.00
7/16/85	0.34	2.00	0.39	0.08	0.24	1.75	0.25
7/17/85	0.49	3.30	0.30	0.00	0.00	1.15	1.12
7/18/85	0.19	0.00	0.79	0.94	1.19	0.00	0.30
7/19/85	0.60	0.50	0.18	1.08	0.08	0.90	0.66
7/20/85	2.35	0.92	1.42	0.40	0.10	0.10	0.00
7/21/85	1.19	1.16	1.00	0.52	0.70	0.00	0.00
7/22/85	0.68	0.42	0.92	1.70	0.13	0.12	0.39
7/23/85	1.80	2.53	1.69	2.15	2.92	2.88	2.22
7/24/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/85	0.00	0.00	0.00	1.25	0.22	0.47	0.00
7/27/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/85	0.00	0.00	0.00	0.00	1.30	1.15	0.00
7/30/85	0.00	0.00	0.00	1.16	0.00	0.00	0.00
7/31/85	0.00	0.12	0.00	0.20	0.12	0.70	1.44
8/ 1/85	0.00	0.00	0.00	1.60	1.45	1.68	0.05
8/ 2/85	M	0.00	1.10	0.00	M	M	0.03
8/ 3/85	M	2.15	0.17	0.00	M	M	0.42
8/ 4/85	M	2.53	0.00	1.87	M	M	0.00
8/ 5/85	0.12	2.07	0.00	1.60	M	M	0.00
8/ 6/85	0.58	0.03	0.00	0.00	M	M	0.00
8/ 7/85	0.19	0.49	0.11	0.00	M	M	0.00
8/ 8/85	0.00	0.00	0.00	0.00	M	M	0.00
8/ 9/85	0.03	0.00	0.12	1.42	M	M	0.80
8/10/85	0.00	0.00	0.00	0.00	M	M	0.00
8/11/85	0.00	0.22	1.10	1.27	M	M	0.00
8/12/85	0.00	0.07	0.05	0.00	M	M	0.60
8/13/85	0.00	0.00	0.22	0.13	M	M	0.00
8/14/85	0.00	0.00	0.00	0.00	M	M	0.00
8/15/85	0.00	0.00	0.00	0.00	M	M	0.00
8/16/85	0.00	0.00	0.00	0.00	M	M	0.00
8/17/85	0.45	0.00	0.51	0.00	M	M	0.38
8/18/85	0.00	0.06	0.00	0.00	M	0.00	0.16
8/19/85	0.00	0.00	1.19	0.34	M	0.20	0.00
8/20/85	1.28	0.13	0.00	0.21	M	0.00	0.00
8/21/85	1.55	0.90	0.69	0.38	M	0.38	0.94
8/22/85	0.36	0.12	0.00	0.69	M	0.00	0.00
8/23/85	0.38	0.00	0.00	0.32	M	0.14	0.00
8/24/85	0.00	0.11	0.00	0.10	M	0.00	0.14
8/25/85	0.00	0.00	0.00	0.00	M	0.00	0.00
8/26/85	0.00	0.00	0.00	0.00	M	0.00	0.20
8/27/85	0.24	0.08	0.05	0.09	M	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
8/28/85	0.25	0.13	0.10	0.53		M 1.04	0.40
8/29/85	0.10	0.22	0.55	0.00		M 0.00	0.00
8/30/85	M	0.00	0.00	0.00		M 0.00	0.00
8/31/85	M	0.00	0.08	0.00		M	M 0.00
9/ 1/85	M	0.00	0.00	0.00	0.00		M 0.00
9/ 2/85	M	0.00	0.00	1.65	0.00		M 0.00
9/ 3/85	M	0.00	0.02	0.00	0.07		M 0.00
9/ 4/85	M	0.31	0.00	0.30	0.15		M 1.52
9/ 5/85	M	1.22	0.02	0.40	0.13	0.81	0.08
9/ 6/85	0.00	0.00	0.00	0.00	0.00	0.00	0.09
9/ 7/85	0.00	0.11	0.00	0.00	0.00	0.00	0.00
9/ 8/85	1.35	0.03	0.11	0.00	0.19	0.00	0.00
9/ 9/85	0.00	0.11	0.00	0.00	1.07	0.09	0.00
9/10/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/85	0.20	0.53	0.30	1.56	0.90	0.00	0.00
9/12/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/13/85	0.29	0.12	0.00	0.00	0.00	0.00	0.00
9/14/85	0.53	0.00	0.00	0.06	0.18	0.35	0.30
9/15/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/16/85	0.12	2.20	0.59	0.72	0.46	0.68	1.31
9/17/85	0.66	0.44	0.30	2.93	1.51	0.34	0.20
9/18/85	0.42	0.65	0.20	0.14	0.10	0.60	0.52
9/19/85	0.19	0.12	0.41	0.15	0.20	0.11	0.15
9/20/85	0.15	0.10	0.08	0.00	0.43	0.19	1.09
9/21/85	0.00	0.04	0.00	0.00	0.04	0.00	0.00
9/22/85	0.00	0.02	0.48	0.00	0.00	0.58	0.00
9/23/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/24/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/25/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/85	M	0.07	0.00	0.00	0.00	0.00	0.00
9/27/85	M	0.00	0.00	0.00	0.00		M 0.00
9/28/85	M	0.00	0.00	0.00	0.08		M 0.02
9/29/85	M	0.00	0.24	0.00	0.09		M 0.00
9/30/85	M	0.37	0.00	0.00	0.68		M 0.06
10/ 1/85	0.00	0.00	0.06	0.00	0.00		M 0.00
10/ 2/85	0.14	0.00	0.00	0.00	0.00		M 0.00
10/ 3/85	1.93	0.00	0.00	3.19		M	M 0.00
10/ 4/85	0.20	0.00	0.00	0.00		M	M 1.17
10/ 5/85	0.06	1.14	0.85	0.10		M	0.00
10/ 6/85	0.00	0.00	0.36	0.48		M	0.05
10/ 7/85	0.00	0.10	0.00	0.00		M	0.00
10/ 8/85	0.00	0.00	0.00	0.00		M	0.00
10/ 9/85	0.00	0.00	0.00	0.00		M	0.00
10/10/85	0.00	0.00	0.00	0.00		M	0.00
10/11/85	0.00	0.00	0.00	0.00		M	0.00
10/12/85	0.00	0.30	0.00	0.00		M	0.38
10/13/85	0.00	0.15	0.00	0.00		M	0.00
10/14/85	0.00	0.00	0.06	0.00		M	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201 ENP	NP-203 ENP	NP-206 ENP	P-34 ENP	P-35 ENP	P-36 ENP	P-38 ENP
10/15/85	0.00	0.00	0.00	0.05		M 0.00	0.00
10/16/85	0.00	0.00	0.00	0.00		M 0.00	0.00
10/17/85	0.00	0.00	0.00	0.00		M 0.00	0.29
10/18/85	0.00	0.00	0.00	0.00		M 0.00	0.00
10/19/85	0.50	0.00	0.00	0.45		M 0.22	0.83
10/20/85	0.00	0.70	0.22	0.00		M 0.08	0.00
10/21/85	0.00	0.07	0.18	0.00		M 0.00	0.00
10/22/85	0.00	0.00	0.00	0.00		M 0.00	0.00
10/23/85	0.00	0.00	0.00	0.00		M 0.06	0.00
10/24/85		M 0.00	0.19	0.00		M	M 0.00
10/25/85		M 0.00	0.00	0.00		M	M 0.00
10/26/85		M 0.00	0.07	0.00		M	M 0.00
10/27/85		M 0.70	0.54	0.30		M	M 2.55
10/28/85	0.00	0.00	0.00	0.44		M 0.00	0.00
10/29/85	0.00	0.00	0.00	0.00		M 0.00	0.00
10/30/85	0.00	0.00	0.00	0.00		M 0.00	0.00
10/31/85	0.00	0.00	0.00	0.04		M 0.00	0.00
11/ 1/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 2/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 3/85	0.60	0.40	0.35	0.00	1.50	1.10	0.70
11/ 4/85	0.00	0.00	0.00	0.00	0.00	0.05	0.03
11/ 5/85	0.00	0.00	0.00	0.25	0.00	0.00	0.00
11/ 6/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 7/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 8/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 9/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/85	0.00	0.00	0.00	0.00	0.00	0.00	0.13
11/12/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/13/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/14/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/15/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/85	0.00	0.00	0.00	0.00	0.04	0.00	0.11
11/17/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/85	0.39	0.18	0.26	0.00	0.07	0.15	0.13
11/19/85	0.98	1.57	1.27	1.28	1.42	1.53	1.61
11/20/85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/21/85		M 0.00	0.00	0.00	0.00		M 0.00
11/22/85		M 0.15	0.00	0.00	0.52		M 0.28
11/23/85		M 0.00	0.00	0.00	0.00		M 0.00
11/24/85		M 0.00	0.00	0.00	0.00		M 0.00
11/25/85		M 0.00	0.00	0.00	0.00		M 0.00
11/26/85		M 0.00	0.00	0.00	0.00		M 0.00
11/27/85		M 0.00	0.00	0.00	0.00		M 0.00
11/28/85		M 0.00	0.00	0.00	0.00		M 0.00
11/29/85		M 0.00	0.00	0.00	0.00		M 0.00
11/30/85		M 0.00	0.00	0.00	0.00		M 0.00
12/ 1/85		M 0.00	0.00	0.00	0.00		M 0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
12/ 2/85	M	0.00	0.00	0.00	0.00	M	0.00
12/ 3/85	M	0.00	0.00	0.00	0.00	M	0.00
12/ 4/85	M	0.28	0.16	0.00	0.00	M	0.30
12/ 5/85	M	0.09	0.37	0.00	0.11	M	0.04
12/ 6/85	M	0.00	0.00	0.00	0.00	M	0.00
12/ 7/85	M	0.00	0.00	0.00	0.00	M	0.00
12/ 8/85	M	0.00	0.00	0.57	0.00	M	0.00
12/ 9/85	M	0.00	0.00	0.00	0.00	M	0.00
12/10/85	M	0.00	0.00	0.00	0.00	M	0.00
12/11/85	M	0.00	0.00	0.00	0.00	M	0.00
12/12/85	M	0.00	0.00	0.00	0.00	M	0.00
12/13/85	M	0.00	0.00	0.00	0.00	M	0.00
12/14/85	M	0.00	0.13	0.00	0.12	M	0.11
12/15/85	M	0.00	0.00	0.00	0.00	M	0.00
12/16/85	M	0.00	0.20	0.00	0.08	M	0.04
12/17/85	M	0.00	0.00	0.00	0.00	M	0.00
12/18/85	M	0.00	0.00	0.00	0.00	M	0.00
12/19/85	M	0.00	0.00	0.00	0.00	M	0.00
12/20/85	M	0.00	0.00	0.00	0.00	M	0.00
12/21/85	M	0.00	0.00	0.00	0.00	M	0.00
12/22/85	M	0.00	0.00	0.00	0.00	M	0.00
12/23/85	M	0.09	0.07	0.00	0.07	M	0.09
12/24/85	M	0.20	0.40	0.18	0.51	M	0.42
12/25/85	M	0.00	0.00	0.00	0.07	0.00	0.05
12/26/85	M	0.00	0.00	0.00	0.00	0.00	0.00
12/27/85	M	0.00	0.80	0.00	0.00	0.00	0.00
12/28/85	M	0.70	0.00	0.00	0.20	0.33	0.35
12/29/85	M	0.00	0.00	0.13	0.00	0.00	0.00
12/30/85	M	0.00	0.00	0.00	0.00	0.00	0.00
12/31/85	M	0.00	0.00	0.00	0.00	0.00	0.00
1/ 1/86	M	0.00	0.00	0.00	0.00	0.00	0.00
1/ 2/86	M	0.55	0.00	0.00	0.00	0.00	0.00
1/ 3/86	M	0.00	0.00	0.00	0.00	0.00	0.00
1/ 4/86	M	0.00	0.00	0.00	0.00	0.00	0.00
1/ 5/86	M	0.00	0.00	0.00	0.00	0.00	0.00
1/ 6/86	M	0.00	0.00	0.00	0.00	0.00	0.00
1/ 7/86	M	0.00	0.90	0.06	0.06	0.16	0.00
1/ 8/86	0.44	0.78	0.77	0.16	0.63	0.55	0.30
1/ 9/86	1.31	0.64	0.12	0.61	0.44	0.52	0.99
1/10/86	0.46	0.30	0.11	0.32	0.07	0.35	0.02
1/11/86	0.00	0.00	0.00	0.00	0.25	0.00	0.12
1/12/86	0.00	0.02	0.00	0.00	0.10	0.16	0.24
1/13/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/86	M	0.00	0.00	0.00	0.00	M	0.00
1/17/86	M	0.00	0.00	0.00	0.00	M	0.00
1/18/86	M	0.05	0.00	0.05	0.00	M	0.04

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201 ENP	NP-203 ENP	NP-206 ENP	P-34 ENP	P-35 ENP	P-36 ENP	P-38 ENP
1/19/86	M	0.00	0.00	0.00	0.00	M	0.00
1/20/86	M	0.00	0.00	0.00	0.00	M	0.00
1/21/86	M	0.00	0.00	0.00	0.00	M	0.00
1/22/86	M	0.00	0.00	0.00	0.00	M	0.00
1/23/86	M	0.00	0.00	0.00	0.00	M	0.00
1/24/86	M	0.00	0.00	0.00	0.00	M	0.00
1/25/86	M	0.00	0.00	0.00	0.00	M	0.00
1/26/86	M	0.02	0.19	0.10	0.21	M	0.01
1/27/86	M	0.00	0.00	0.00	0.00	M	0.00
1/28/86	M	0.00	0.00	0.00	0.00	M	0.00
1/29/86	M	0.00	0.00	0.00	0.00	M	0.00
1/30/86	M	0.00	0.00	0.00	0.00	M	0.00
1/31/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 1/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 2/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 3/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 4/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 5/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 6/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 7/86	M	0.00	0.00	0.00	0.00	M	0.00
2/ 8/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/ 9/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/10/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/11/86	0.00	0.11	0.13	0.12	0.00	M	0.00
2/12/86	0.05	0.00	0.00	0.00	0.00	M	0.00
2/13/86	M	0.00	0.00	0.00	0.00	M	0.00
2/14/86	M	0.00	0.00	0.00	0.00	M	0.00
2/15/86	M	0.00	0.00	0.00	0.00	M	0.00
2/16/86	M	0.00	0.00	0.00	0.00	M	0.00
2/17/86	M	0.00	0.00	0.00	0.00	M	0.00
2/18/86	M	0.85	1.00	0.90	0.68	M	0.47
2/19/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/20/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/21/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/22/86	0.19	0.00	0.00	0.00	0.00	M	0.00
2/23/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/24/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/25/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/26/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/27/86	0.00	0.00	0.00	0.00	0.00	M	0.00
2/28/86	0.00	0.00	0.00	0.00	0.26	M	0.08
3/ 1/86	0.09	0.10	0.12	0.13	0.00	M	0.06
3/ 2/86	0.00	0.00	0.00	0.00	0.00	M	0.00
3/ 3/86	0.00	0.00	0.00	0.00	0.00	M	0.00
3/ 4/86	0.00	0.00	0.00	0.00	0.06	M	0.09
3/ 5/86	0.00	0.00	M	0.00	0.00	M	0.00
3/ 6/86	0.00	0.00	M	0.00	0.00	M	0.00
3/ 7/86	0.00	0.00	M	0.00	0.00	M	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
3/ 8/86	0.00	0.00	M	0.00	0.00	M	0.00
3/ 9/86	0.00	0.00	M	0.33	0.25	M	0.00
3/10/86	1.81	1.31	M	0.38	0.07	M	0.19
3/11/86	0.00	0.00	M	0.00	0.10	M	0.00
3/12/86	0.00	0.00	M	0.00	0.00	M	0.00
3/13/86	1.30	0.22	0.60	0.00	0.00	M	0.03
3/14/86	0.00	0.00	0.00	0.00	M	M	0.00
3/15/86	0.00	0.00	0.00	0.00	M	M	0.00
3/16/86	0.00	0.00	0.00	0.00	M	M	0.00
3/17/86	0.10	0.20	0.00	0.03	M	0.10	0.17
3/18/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/19/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/20/86	0.00	0.00	0.74	0.00	M	0.00	0.00
3/21/86	1.19	1.22	0.00	1.00	M	1.04	0.56
3/22/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/23/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/24/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/25/86	0.25	0.00	0.82	0.10	M	0.05	0.00
3/26/86	0.45	1.50	2.02	0.70	M	0.88	2.20
3/27/86	0.00	0.44	0.35	0.41	M	0.00	0.80
3/28/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/29/86	0.00	0.00	0.00	0.00	M	0.00	0.00
3/30/86	0.00	0.25	0.48	0.00	M	0.00	0.05
3/31/86	0.00	0.00	0.00	0.00	M	0.00	0.00
4/ 1/86	0.00	0.00	0.00	0.00	0.09	0.00	0.33
4/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 8/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 9/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/10/86	M	0.00	0.00	0.00	0.00	M	0.00
4/11/86	M	0.00	0.00	0.00	0.00	M	0.00
4/12/86	M	0.00	0.00	0.00	0.00	M	0.00
4/13/86	M	0.82	0.78	0.80	1.47	M	1.00
4/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/18/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/21/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/23/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
4/25/86	M	0.00	0.00	0.00	0.00	0.00	0.00
4/26/86	M	0.00	0.00	0.00	0.00	0.00	0.00
4/27/86	M	0.00	0.00	0.00	0.00	0.00	0.00
4/28/86	M	0.00	0.00	0.00	0.00	0.00	0.00
4/29/86	M	0.00	0.00	0.00	0.00	0.00	0.00
4/30/86	M	0.00	0.00	0.00	0.00	0.00	0.00
5/ 1/86	M	0.00	0.00	0.00	0.00	0.00	0.00
5/ 2/86	M	0.00	0.00	0.00	0.00	0.00	0.00
5/ 3/86	M	0.00	0.00	0.00	0.00	0.00	0.00
5/ 4/86	M	0.20	0.02	0.17	0.10	0.00	0.00
5/ 5/86	M	0.00	0.00	0.00	0.00	0.00	0.00
5/ 6/86	M	0.10	0.00	0.00	0.46	0.00	0.00
5/ 7/86	M	0.00	0.00	0.00	0.00	0.00	0.00
5/ 8/86	M	0.63	0.00	0.00	0.63	M	0.03
5/ 9/86	M	0.40	0.00	0.00	0.00	M	0.00
5/10/86	M	0.00	0.00	0.00	0.00	M	0.00
5/11/86	M	0.00	0.00	0.00	0.00	M	0.00
5/12/86	M	0.00	0.00	0.00	0.00	M	0.00
5/13/86	M	0.00	0.00	0.14	0.04	M	0.50
5/14/86	M	0.00	0.00	0.00	0.00	M	0.00
5/15/86	M	0.05	0.25	0.10	0.38	M	0.00
5/16/86	M	0.00	0.00	0.00	0.00	M	0.00
5/17/86	M	0.00	0.00	0.00	0.08	M	0.00
5/18/86	M	0.00	0.00	0.20	0.00	M	0.45
5/19/86	M	0.00	0.00	0.04	0.02	M	0.00
5/20/86	M	0.00	0.30	0.00	0.00	M	0.04
5/21/86	M	0.00	0.00	0.00	0.00	M	0.00
5/22/86	M	0.00	0.00	0.03	0.00	M	0.00
5/23/86	M	0.00	0.28	0.02	0.15	M	0.00
5/24/86	M	0.00	0.00	0.00	0.00	M	0.00
5/25/86	M	0.00	0.00	0.00	0.00	M	0.00
5/26/86	M	0.00	0.00	0.00	0.00	M	0.05
5/27/86	M	0.00	0.00	0.00	0.00	M	0.02
5/28/86	M	0.00	0.00	0.00	0.00	M	0.00
5/29/86	M	0.00	0.00	0.00	0.00	M	0.00
5/30/86	M	0.00	0.00	0.00	0.00	M	0.00
5/31/86	M	0.00	0.00	0.00	0.00	M	0.00
6/ 1/86	0.00	0.00	0.00	0.00	0.00	M	0.00
6/ 2/86	M	0.33	0.60	1.73	0.82	M	0.00
6/ 3/86	0.00	0.00	0.00	0.00	0.00	M	0.00
6/ 4/86	0.00	0.00	0.00	0.00	0.00	M	0.00
6/ 5/86	0.00	0.00	0.00	0.00	0.00	M	0.00
6/ 6/86	M	0.45	0.00	1.68	0.14	M	0.30
6/ 7/86	M	0.00	0.97	0.00	2.82	M	1.10
6/ 8/86	M	1.42	2.03	0.09	0.80	M	2.58
6/ 9/86	M	0.85	0.01	0.00	0.46	M	0.00
6/10/86	0.00	0.00	0.00	0.13	0.09	M	0.49
6/11/86	1.10	0.71	0.00	0.00	0.37	M	0.17

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
6/12/86	1.20	0.85	1.63	1.24	2.98	1.79	2.40
6/13/86	0.30	0.27	0.42	2.40	0.46	0.05	0.50
6/14/86	0.35	0.30	0.25	0.87	2.05	1.78	0.00
6/15/86	1.27	1.10	2.25	0.07	0.44	0.96	0.47
6/16/86	0.59	0.12	1.85	2.68	3.43	0.77	0.28
6/17/86	0.00	0.02	0.00	0.08	0.20	0.10	0.74
6/18/86	0.20	1.00	0.01	0.10	0.52	0.51	0.53
6/19/86	1.78	0.54	0.00	0.80	1.16	0.30	1.10
6/20/86	0.68	1.25	1.60	0.10	0.37	0.10	0.40
6/21/86	0.00	0.03	0.00	0.00	0.00	0.00	0.13
6/22/86	0.00	0.00	1.09	2.00	0.00	0.00	0.07
6/23/86	0.20	0.90	0.29	0.00	0.00	0.00	0.05
6/24/86	0.02	0.00	0.00	0.00	0.00	0.00	0.00
6/25/86	0.11	0.60	0.00	1.50	0.00	0.00	0.00
6/26/86	0.02	0.00	0.23	0.00	0.07	0.00	0.25
6/27/86	0.15	0.95	0.00	0.00	0.18	0.21	0.63
6/28/86	0.01	0.00	0.00	0.07	0.95	0.00	0.28
6/29/86	0.05	0.35	0.00	0.00	0.10	0.14	0.00
6/30/86	0.22	0.30	0.00	0.70	0.15	0.52	0.00
7/ 1/86	0.03	0.00	0.00	0.00	0.00	0.00	0.00
7/ 2/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/ 3/86	M	1.32	0.00	0.40	0.00	M	0.07
7/ 4/86	M	0.10	0.00	0.19	0.32	M	0.00
7/ 5/86	M	0.20	1.90	0.11	0.00	M	0.24
7/ 6/86	0.37	0.20	0.00	0.50	0.32	M	0.00
7/ 7/86	0.00	0.00	0.00	0.00	0.00	M	0.37
7/ 8/86	0.00	0.19	0.00	0.00	0.00	M	0.00
7/ 9/86	0.19	0.05	1.35	0.10	0.00	M	0.00
7/10/86	0.00	0.40	0.00	0.12	0.00	M	0.14
7/11/86	0.00	0.90	0.30	0.18	0.30	M	0.00
7/12/86	0.00	0.00	0.00	0.00	0.00	M	0.00
7/13/86	0.00	0.00	0.00	0.00	0.00	M	0.00
7/14/86	0.00	0.00	0.00	0.00	0.00	M	0.00
7/15/86	0.00	0.00	0.00	0.00	0.00	M	0.00
7/16/86	0.00	0.00	0.00	0.00	0.00	M	0.00
7/17/86	0.00	0.00	0.00	0.00	0.00	M	0.00
7/18/86	0.00	0.07	0.00	0.22	0.78	M	0.98
7/19/86	0.00	0.00	2.18	0.00	0.00	M	0.00
7/20/86	0.05	1.10	0.80	0.00	0.00	M	0.00
7/21/86	0.74	0.00	0.53	0.00	0.00	M	0.00
7/22/86	0.00	0.04	0.00	0.00	0.00	M	0.00
7/23/86	0.00	0.00	0.18	0.09	0.00	M	0.98
7/24/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/86	1.58	0.47	0.00	2.67	0.60	0.00	0.05
7/26/86	0.92	0.49	0.00	0.77	0.95	0.33	0.66
7/27/86	0.00	0.00	0.50	0.87	0.00	0.00	0.00
7/28/86	0.30	0.05	0.00	0.03	0.00	0.12	0.21
7/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
7/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/86	0.00	0.00	0.60	0.30	0.00	0.00	0.00
8/ 1/86	M	0.18	0.00	0.00	0.08	0.04	0.25
8/ 2/86	0.08	0.00	0.00	0.19	0.00	0.07	0.05
8/ 3/86	0.00	0.00	0.00	0.45	0.00	0.00	0.11
8/ 4/86	0.00	0.60	0.00	0.71	0.70	1.12	0.25
8/ 5/86	0.00	0.00	0.00	0.00	0.18	0.05	0.00
8/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.08
8/ 7/86	0.00	0.00	0.00	0.07	0.12	0.00	0.00
8/ 8/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/ 9/86	0.00	0.00	0.00	0.00	0.04	0.00	0.00
8/10/86	0.09	0.41	0.00	0.00	0.38	0.18	0.00
8/11/86	2.22	1.05	0.06	0.11	0.45	0.26	0.46
8/12/86	0.00	0.00	0.00	0.00	0.23	0.00	0.03
8/13/86	0.49	0.20	0.00	0.02	0.00	0.05	0.10
8/14/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/15/86	0.07	0.00	0.10	0.00	0.30	0.05	0.70
8/16/86	0.20	1.40	0.21	0.07	0.55	0.07	1.54
8/17/86	2.00	1.00	1.17	0.00	0.40	0.03	0.00
8/18/86	0.00	0.18	0.23	0.48	0.76	0.71	0.19
8/19/86	0.47	0.05	0.00	0.12	0.29	0.11	1.19
8/20/86	0.00	0.00	0.00	0.12	0.00	0.00	0.00
8/21/86	0.37	0.30	0.15	0.18	0.00	0.47	0.00
8/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/23/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/24/86	0.00	0.00	0.15	0.38	0.00	0.03	0.00
8/25/86	0.23	0.24	0.03	0.00	0.03	0.08	0.00
8/26/86	0.00	0.14	0.20	0.89	0.00	0.11	0.00
8/27/86	0.51	0.49	1.30	0.00	0.35	1.05	0.38
8/28/86	0.00	0.00	0.00	0.40	0.69	0.81	0.00
8/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/31/86	0.00	0.18	0.18	0.79	0.28	0.06	0.00
9/ 1/86	0.00	0.00	0.00	0.00	0.11	0.00	0.00
9/ 2/86	0.07	0.24	0.04	0.00	0.00	0.00	0.00
9/ 3/86	1.40	0.23	0.08	0.00	0.55	0.34	0.00
9/ 4/86	0.10	0.59	0.88	0.94	0.00	0.26	0.63
9/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/ 6/86	0.15	0.92	0.95	0.00	0.20	1.69	0.20
9/ 7/86	0.12	0.00	0.00	0.00	0.00	0.65	0.00
9/ 8/86	0.00	0.11	0.50	0.09	0.00	0.03	0.20
9/ 9/86	0.00	0.03	0.00	0.13	0.00	0.00	0.00
9/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/11/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/12/86	0.00	0.29	0.00	0.00	0.15	0.00	0.02
9/13/86	0.00	0.00	0.20	0.00	0.00	0.00	0.08
9/14/86	0.00	0.00	0.00	0.00	0.11	0.00	0.10
9/15/86	0.00	0.00	0.05	0.00	0.00	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
9/16/86	0.06	0.00	0.00	0.14	0.10	0.00	0.00
9/17/86	0.43	0.18	0.08	0.32	0.05	0.13	0.00
9/18/86	0.08	0.00	0.00	0.00	0.00	0.00	0.00
9/19/86	0.00	0.00	0.00	0.00	0.04	0.00	0.00
9/20/86	0.20	0.70	0.15	1.19	1.24	1.70	0.60
9/21/86	0.10	0.70	0.00	0.00	0.09	0.77	0.00
9/22/86	0.70	0.80	0.40	0.06	0.39	0.42	0.41
9/23/86	0.07	0.11	0.00	0.00	0.00	0.09	1.12
9/24/86	0.00	0.00	0.05	0.00	0.25	0.35	0.00
9/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/26/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/86	0.00	0.25	0.00	0.00	0.00	0.00	0.00
9/28/86	0.00	0.00	M	0.00	M	0.00	0.00
9/29/86	0.20	0.00	M	0.00	M	0.00	0.00
9/30/86	0.07	0.00	M	0.00	M	0.00	0.05
10/ 1/86	0.00	0.00	M	0.00	M	0.00	0.00
10/ 2/86	0.00	0.00	M	0.51	M	0.03	0.01
10/ 3/86	0.00	0.00	M	0.00	M	0.00	0.00
10/ 4/86	0.00	0.10	M	0.17	M	0.00	1.10
10/ 5/86	0.00	0.00	M	0.00	M	1.57	0.00
10/ 6/86	0.00	0.52	M	0.00	M	0.00	1.45
10/ 7/86	0.00	0.00	M	0.00	M	0.00	0.39
10/ 8/86	0.00	0.00	M	0.00	M	0.00	0.00
10/ 9/86	0.00	0.00	M	0.00	M	0.00	0.00
10/10/86	0.42	0.00	M	0.11	M	0.00	0.00
10/11/86	0.00	0.00	M	0.00	M	0.13	0.00
10/12/86	0.00	0.00	M	0.00	M	0.00	0.00
10/13/86	0.00	0.00	M	0.00	M	0.00	0.00
10/14/86	0.00	0.05	M	0.00	M	0.27	0.45
10/15/86	0.25	0.15	M	0.18	M	0.00	0.39
10/16/86	0.00	0.00	M	0.00	M	0.00	0.00
10/17/86	0.00	0.00	M	0.00	M	0.00	0.00
10/18/86	0.00	0.00	M	0.00	M	0.00	0.00
10/19/86	0.31	0.00	M	0.00	M	0.00	0.00
10/20/86	0.00	0.00	M	0.00	M	0.00	0.00
10/21/86	0.00	0.00	M	0.00	M	0.00	0.00
10/22/86	0.00	0.00	M	0.00	M	0.00	0.00
10/23/86	0.00	0.00	M	0.00	M	0.00	0.00
10/24/86	0.00	0.00	0.00	0.00	M	0.00	0.00
10/25/86	0.00	0.00	0.00	0.00	M	0.00	0.00
10/26/86	0.00	0.00	0.00	0.00	M	0.00	0.00
10/27/86	0.00	0.00	0.04	0.00	M	0.00	0.00
10/28/86	0.22	1.55	1.80	0.38	3.48	2.98	1.08
10/29/86	0.05	0.00	0.32	0.00	0.00	0.00	0.00
10/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/31/86	0.00	0.06	0.00	2.64	0.06	0.04	0.00
11/ 1/86	0.00	0.00	0.00	0.00	0.00	0.00	0.28
11/ 2/86	0.00	0.33	0.00	0.00	0.00	0.04	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
11/ 3/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 4/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 5/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 6/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 7/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/ 8/86	0.00	0.00	0.15	0.00	0.00	0.00	0.00
11/ 9/86	0.00	0.00	0.00	0.00	0.12	0.06	0.00
11/10/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/86	0.00	0.05	0.00	0.00	0.00	0.00	0.00
11/12/86	0.00	0.00	0.00	0.00	0.00	0.00	1.50
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.50	1.50	1.50	1.50	1.50	1.50	1.50
11/15/86	0.00	0.03	0.00	0.00	0.20	0.00	0.00
11/16/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/17/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/20/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/21/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/22/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/23/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/24/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/25/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/26/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/27/86	0.00	0.00	0.00	0.00	M	0.00	0.00
11/28/86	0.00	0.37	0.35	0.25	M	0.14	0.14
11/29/86	0.13	0.00	0.20	0.00	M	0.00	0.00
11/30/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 1/86	0.46	0.28	0.90	0.12	M	0.70	0.55
12/ 2/86	0.00	0.00	0.00	0.00	M	0.00	0.07
12/ 3/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 4/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 5/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 6/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 7/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 8/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/ 9/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/10/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/11/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/12/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/13/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/14/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/15/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/16/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/17/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/18/86	0.00	0.00	0.00	0.00	M	0.00	0.00
12/19/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
12/21/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/22/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/86	0.16	0.10	0.05	0.35	0.13	0.48	0.03
12/24/86	0.54	0.28	0.39	0.45	0.30	0.18	0.90
12/25/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/26/86	0.20	0.04	0.11	0.55	0.19	0.09	0.08
12/27/86	0.70	0.70	0.62	0.61	0.88	0.89	0.52
12/28/86	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/29/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30/86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/86	0.60	0.90	1.10	0.76	0.94	1.15	0.77
1/ 1/87	0.00	0.00	0.00	0.00	0.01	0.00	0.00
1/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 4/87	0.72	0.30	0.75	0.45	0.60	0.25	0.52
1/ 5/87	0.00	0.00	0.00	0.00	0.00	0.01	0.01
1/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 7/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/10/87	0.08	0.00	0.00	0.00	0.03	0.00	0.00
1/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/19/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/87	0.00	0.01	0.11	0.16	0.05	0.00	0.00
1/23/87	0.00	0.00	0.00	0.00			
1/24/87	0.00	0.00	0.00	0.00	M	0.00	0.00
1/25/87	0.00	0.04	0.00	0.00	M	0.00	0.00
1/26/87	0.00	0.00	0.00	0.00	M	0.09	0.00
1/27/87	0.00	0.00	0.00	0.00	M	0.00	0.00
1/28/87	0.00	0.00	0.00	0.00	M	0.00	0.00
1/29/87	0.00	0.00	0.00	0.00	M	0.00	0.00
1/30/87	0.00	0.00	0.00	0.00	M	0.00	0.00
1/31/87	0.00	0.00	0.00	0.00	M	0.00	0.00
2/ 1/87	0.00	0.00	0.00	0.00			
2/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/ 5/87	0.61	0.10	0.00	0.09	0.00	0.00	0.00
2/ 6/87	0.13	0.00	0.00	0.00	0.00	0.00	0.04

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
2/ 7/87	0.01	0.26	0.15	0.34	0.09	0.11	0.00
2/ 8/87	0.00	0.00	0.00	0.00	0.02	0.00	0.00
2/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/87	0.00	0.00	0.00	0.09	0.00	0.00	0.00
2/16/87	0.00	0.00	0.10	0.00	0.00	0.00	0.00
2/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/18/87	0.40	0.00	0.00	0.00	0.00	0.00	0.00
2/19/87	0.29	0.00	0.00	0.00	0.00	0.00	0.00
2/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/22/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/23/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/25/87	0.00	0.00	0.07	0.00	0.04	0.00	0.20
2/26/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 1/87	0.57	0.14	0.02	0.17	0.10	0.00	0.09
3/ 2/87	0.35	0.80	1.10	0.36	0.99	0.62	0.71
3/ 3/87	0.00	0.00	0.00	0.00	0.00	0.05	0.00
3/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 6/87	4.45	4.10	2.50	3.34	5.68	5.55	5.30
3/ 7/87	0.05	0.50	0.00	1.30	0.11	0.02	0.04
3/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/17/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/19/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/22/87	0.00	0.09	0.05	1.35	0.30	0.39	0.23
3/23/87	0.19	0.12	0.20	0.13	0.04	0.30	0.05
3/24/87	0.76	1.10	1.10	0.97	1.28	0.80	0.72
3/25/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/26/87	0.74	0.00	0.00	0.00	0.00	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
3/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/29/87	0.99	1.76	0.00	0.25	0.00	0.09	0.00
3/30/87	0.00	0.00	0.00	0.00	0.32	0.62	0.20
3/31/87	0.62	0.62	0.80	0.60	0.32	0.00	0.27
4/ 1/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 6/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 7/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/11/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/12/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/14/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/15/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/87	0.09	0.00	0.00	0.00	0.20	0.00	0.10
4/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/22/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/23/87	0.00	0.08	0.00	0.11	0.00	0.10	0.02
4/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/25/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/26/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.19
4/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 1/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 2/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 4/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 5/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 6/87	0.00	0.00	0.00	0.00	0.00	0.50	0.00
5/ 7/87	0.00	0.00	1.02	0.00	1.18	0.00	0.28
5/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/ 9/87	0.30	1.01	1.00	0.40	0.00	1.25	0.00
5/10/87	1.72	0.74	2.02	1.45	0.09	0.00	0.58
5/11/87	0.00	0.00	0.00	0.53	0.42	0.00	0.59
5/12/87	0.00	0.00	0.82	0.00	0.00	0.00	0.18
5/13/87	0.53	0.00	0.23	0.00	0.21	0.00	0.83

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
5/14/87	0.50	1.65	0.00	0.00	0.00	0.00	0.00
5/15/87	0.06	0.00	1.33	0.42	0.35	0.23	0.00
5/16/87	0.03	0.65	0.00	0.11	0.10	0.00	0.00
5/17/87	0.00	0.00	0.00	0.00	0.00	0.05	0.00
5/18/87	0.00	0.10	0.00	0.00	1.34	0.05	0.00
5/19/87	0.00	0.37	0.00	0.45	0.11	0.00	0.03
5/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/22/87	0.00	0.00	0.00	0.00	0.00	0.00	0.12
5/23/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/25/87	0.00	0.00	0.00	0.00	0.00	0.00	0.03
5/26/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/27/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/29/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/87	0.00	0.00	0.00	0.00	0.00	0.08	0.00
5/31/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/ 1/87	2.10	0.45	0.97	0.00	0.15	3.95	0.00
6/ 2/87	0.00	0.33	0.00	1.01	0.10	1.95	1.20
6/ 3/87	0.00		M	M	M	M	0.20
6/ 4/87	0.00		M	M	M	M	0.00
6/ 5/87	0.00		M	M	M	M	0.00
6/ 6/87	0.00		M	M	M	M	0.00
6/ 7/87	0.00		M	M	M	M	0.08
6/ 8/87	0.00		M	M	M	M	0.00
6/ 9/87	0.00		M	M	M	M	0.00
6/10/87	0.00		M	M	M	M	0.00
6/11/87	0.00		M	M	M	M	0.00
6/12/87	0.00		M	M	M	M	0.00
6/13/87	0.00		M	M	M	M	0.00
6/14/87	0.00		M	M	M	M	0.00
6/15/87	0.00		M	M	M	M	1.60
6/16/87	0.00		M	M	0.31	0.03	0.50
6/17/87	0.00	0.00	0.00	0.00	0.14	0.00	0.00
6/18/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/19/87	0.00	0.00	0.37	0.08	0.90	0.21	0.07
6/20/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/21/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/87	0.10	0.00	0.00	0.00	0.00	0.00	0.03
6/23/87	0.07	0.90	1.85	0.00	0.00	0.00	0.00
6/24/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/87	0.89	0.17	0.00	0.00	0.00	0.00	0.00
6/26/87	0.20	0.37	0.67	0.09	0.21	0.25	1.08
6/27/87	0.00	0.00	0.59	0.22	0.00	0.00	0.10
6/28/87	0.08	0.07	1.86	0.00	0.00	0.00	0.68
6/29/87	0.45	0.39	1.22	0.14	0.09	0.10	1.95
6/30/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D.2 Daily Rainfall (Inches), Everglades National Park,
from July 11, 1985 through July 11, 1987.

Date	NP-201	NP-203	NP-206	P-34	P-35	P-36	P-38
	ENP	ENP	ENP	ENP	ENP	ENP	ENP
7/ 1/87	0.02	0.59	0.00	0.10	0.29	0.45	0.61
7/ 2/87	0.00	0.30	0.24	0.40	0.81	0.00	0.00
7/ 3/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/ 4/87	0.00	0.00	0.02	0.00	0.00	0.09	0.00
7/ 5/87	0.00	0.25	0.02	0.00	0.00	0.10	0.00
7/ 6/87	0.00	0.00	0.00	0.22	0.13	0.00	0.00
7/ 7/87	0.50	0.00	0.00	0.00	0.76	0.26	3.35
7/ 8/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/ 9/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/87	0.00	0.00	0.00	0.33	0.00	0.00	0.00

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
7/11/85	0	15	12	67	0	0	0	0
7/12/85	0	14	12	66	0	0	0	0
7/13/85	0	14	12	66	0	0	0	0
7/14/85	0	14	12	68	0	0	0	0
7/15/85	0	14	12	69	0	0	0	0
7/16/85	0	15	12	73	0	42	0	0
7/17/85	0	14	12	74	0	103	0	0
7/18/85	0	15	13	82	0	104	0	0
7/19/85	0	16	14	85	0	105	0	0
7/20/85	0	17	15	93	0	106	0	0
7/21/85	0	18	16	99	0	108	0	0
7/22/85	0	19	16	100	0	108	0	0
7/23/85	10	19	32	59	0	127	0	0
7/24/85	21	24	50	30	0	149	0	0
7/25/85	22	26	53	31	0	152	0	0
7/26/85	23	27	55	33	0	154	0	0
7/27/85	24	28	57	33	0	156	0	0
7/28/85	25	28	58	33	0	158	0	0
7/29/85	26	29	59	33	0	160	0	0
7/30/85	33	75	83	71	0	274	0	0
7/31/85	40	114	102	98	0	366	0	0
8/ 1/85	41	115	104	100	0	369	0	0
8/ 2/85	41	117	105	101	0	371	0	0
8/ 3/85	43	119	108	103	0	374	0	0
8/ 4/85	45	125	111	106	0	381	0	0
8/ 5/85	47	132	116	110	0	388	0	0
8/ 6/85	131	179	225	183	0	644	0	0
8/ 7/85	178	203	294	231	0	796	180	0
8/ 8/85	181	204	297	235	0	800	85	0
8/ 9/85	184	209	301	239	108	797	0	0
8/10/85	184	210	303	241	285	800	0	0
8/11/85	183	211	304	241	280	799	0	0
8/12/85	183	212	303	241	279	799	0	0
8/13/85	192	211	303	241	277	843	0	0
8/14/85	201	210	302	240	273	867	0	0
8/15/85	200	210	300	239	270	866	0	0
8/16/85	199	209	300	239	268	867	0	0
8/17/85	199	208	299	239	265	867	0	0
8/18/85	199	208	298	239	262	868	0	0
8/19/85	199	208	297	239	76	866	0	0
8/20/85	203	198	298	220	0	900	0	0
8/21/85	211	198	311	216	0	929	0	0
8/22/85	219	206	323	222	0	940	0	0
8/23/85	221	207	323	222	0	940	0	0
8/24/85	224	207	323	222	0	938	0	0
8/25/85	224	206	322	221	0	937	0	0
8/26/85	224	206	320	220	0	930	0	0
8/27/85	227	208	324	222	0	935	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
8/28/85	229	210	327	224	0	934	0	0
8/29/85	230	211	330	225	0	935	0	0
8/30/85	231	213	332	227	0	944	0	0
8/31/85	227	209	328	225	0	938	0	0
9/ 1/85	224	206	322	222	0	932	0	0
9/ 2/85	226	209	327	224	0	938	0	0
9/ 3/85	229	211	330	225	0	942	0	0
9/ 4/85	231	212	331	226	0	946	0	0
9/ 5/85	231	212	333	227	0	946	0	0
9/ 6/85	233	214	335	227	0	947	0	0
9/ 7/85	232	214	336	228	0	946	0	0
9/ 8/85	234	213	335	227	0	948	0	0
9/ 9/85	234	214	336	227	0	947	0	0
9/10/85	233	215	256	227	0	944	0	0
9/11/85	234	218	166	227	0	945	0	0
9/12/85	235	210	166	228	0	948	0	0
9/13/85	234	209	166	229	0	944	0	0
9/14/85	237	211	168	230	0	948	0	0
9/15/85	238	212	169	230	0	903	0	0
9/16/85	237	211	168	230	0	880	0	0
9/17/85	161	136	171	198	0	850	0	0
9/18/85	110	95	178	185	0	291	0	0
9/19/85	218	238	265	279	362	0	0	0
9/20/85	301	348	318	344	833	0	0	0
9/21/85	295	344	318	343	1090	0	0	0
9/22/85	291	341	315	340	1090	0	0	0
9/23/85	290	339	315	339	1090	0	0	0
9/24/85	354	385	372	385	1091	0	0	0
9/25/85	425	414	414	412	1088	0	0	0
9/26/85	416	404	410	409	1087	0	0	0
9/27/85	412	398	405	407	1087	0	0	0
9/28/85	407	394	404	405	1088	0	0	0
9/29/85	406	390	401	403	1089	0	0	0
9/30/85	406	388	400	403	1087	0	0	0
10/ 1/85	338	333	340	411	993	469	0	0
10/ 2/85	263	270	284	421	866	837	0	0
10/ 3/85	263	271	282	416	836	922	0	0
10/ 4/85	270	275	283	415	832	967	0	0
10/ 5/85	275	283	288	422	864	908	0	0
10/ 6/85	279	287	291	428	868	797	0	0
10/ 7/85	285	294	297	438	859	363	0	0
10/ 8/85	290	299	300	328	934	329	0	0
10/ 9/85	289	298	299	262	1042	766	0	0
10/10/85	281	293	295	263	1029	761	0	0
10/11/85	277	288	292	261	1015	758	0	0
10/12/85	274	286	292	261	1011	755	0	0
10/13/85	273	287	291	260	1006	753	0	0
10/14/85	272	288	290	259	999	751	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
10/15/85	298	305	287	281	988	748	0	0
10/16/85	329	331	283	321	979	745	0	0
10/17/85	329	328	281	319	270	742	0	0
10/18/85	337	332	282	319	0	743	0	0
10/19/85	340	334	283	320	0	743	0	0
10/20/85	346	338	285	322	0	746	0	0
10/21/85	349	341	286	324	0	748	0	0
10/22/85	299	286	279	291	0	749	0	0
10/23/85	264	264	277	265	0	750	0	0
10/24/85	266	266	279	266	0 E	751	0	0
10/25/85	268	267	281	268	0 E	754	0	0
10/26/85	267	267	280	267	0 E	753	0	0
10/27/85	273	273	284	270	0 E	759	0	0
10/28/85	279	279	290	275	0 E	764	0	0
10/29/85	254	244	244	251	0 E	765	0	0
10/30/85	238	226	211	234	0 E	764	0	0
10/31/85	234	223	208	230	0	757	0	0
11/ 1/85	231	220	207	230	0	757	0 P	0
11/ 2/85	232	220	208	231	0	758	0	0
11/ 3/85	232	221	207	230	0	757	0	0
11/ 4/85	233	219	210	225	0	764	0	0
11/ 5/85	217	210	212	222	0	765	0	0
11/ 6/85	198	202	211	205	0	763	0	0
11/ 7/85	197	202	210	205	0	762	0	0
11/ 8/85	197	201	210	204	0	760	0	0
11/ 9/85	197	200	209	203	0	758	0	0
11/10/85	197	199	209	203	0	758	0	0
11/11/85	196	199	209	203	0	756	0	0
11/12/85	181	173	188	188	0	753	0	0
11/13/85	161	138	155	167	0	752	0	0
11/14/85	161	138	155	153	0	751	0	0
11/15/85	161	138	155	146	0	749	0	0
11/16/85	160	137	154	146	0	748	0	0
11/17/85	159	137	154	145	0	748	0	0
11/18/85	160	138	154	146	0	343	0	0
11/19/85	126	116	126	115	0	0	0	0
11/20/85	94	96	101	87	0	270	0	0
11/21/85	93	95	100	86	0	478	0	0
11/22/85	93	95	101	87	0	480	0	0
11/23/85	94	96	102	88	0	484	0	0
11/24/85	94	97	102	88	0	484	0	0
11/25/85	94	96	102	88	0	484	0	0
11/26/85	81	78	70	73	0	403	0	0
11/27/85	73	67	50	63	0	343	0	0
11/28/85	73	67	50	63	0	343	0	0
11/29/85	72	67	50	62	0	343	0	0
11/30/85	72	67	50	62	0	343	0	0
12/ 1/85	72	67	50	62	0	337	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD
12/ 2/85	72	67	50	62	0	338	0	0
12/ 3/85	64	63	50	63	0	311	0	0
12/ 4/85	56	60	50	62	0	286	0	0
12/ 5/85	56	60	50	62	0	286	0	0
12/ 6/85	56	60	50	63	0	287	0	0
12/ 7/85	56	60	50	62	0	287	0	0
12/ 8/85	56	60	50	62	0	286	0	0
12/ 9/85	56	60	50	62	0	286	0	0
12/10/85	56	40	50	47	0	258	0	0
12/11/85	56	28	50	38	0	243	0	0
12/12/85	55	28	50	38	0	244	0	0
12/13/85	55	28	50	38	0	243	0	0
12/14/85	55	28	50	38	0	245	0	0
12/15/85	55	28	50	38	0	245	0	0
12/16/85	55	28	50	38	0	245	0	0
12/17/85	42	28	42	38	0	220	0	0
12/18/85	35	28	38	38	0	202	0	0
12/19/85	35	28	38	38	0	202	0	0
12/20/85	35	28	38	38	0	202	0	0
12/21/85	35	28	38	38	0	202	0	0
12/22/85	35	28	38	38	0	201	0	0
12/23/85	34	28	37	38	0	201	0	0
12/24/85	34	28	37	25	0	163	0	0
12/25/85	34	28	37	18	0	144	0	0
12/26/85	34	28	38	19	0	145	0	0
12/27/85	34	28	37	18	0	144	0	0
12/28/85	34	28	37	18	0	144	0	0
12/29/85	34	28	37	18	0	144	0	0
12/30/85	34	24	37	18	0	144	0	0
12/31/85	24	24	37	18	0	143	0	0
1/ 1/86	20	24	37	18	0	143	0	0
1/ 2/86	20	24	37	18	0	143	0	0
1/ 3/86	20	24	37	18	0	143	0	0
1/ 4/86	20	24	37	18	0	143	0	0
1/ 5/86	20	24	37	18	0	143	0	0
1/ 6/86	20	24	37	18	0	143	0	0
1/ 7/86	20	24	37	18	0	124	0	0
1/ 8/86	20	24	37	18	0	115	0	0
1/ 9/86	20	24	38	18	0	115	0	0
1/10/86	20	24	38	19	0	115	0	0
1/11/86	20	25	39	19	0	117	0	0
1/12/86	21	25	39	19	0	117	0	0
1/13/86	21	25	39	19	0	117	0	0
1/14/86	21	39	39	34	0	153	0	0
1/15/86	20	45	39	41	0	175	0	0
1/16/86	20	45	39	41	0	174	0	0
1/17/86	20	45	38	41	0	174	0	0
1/18/86	20	45	39	40	0	174	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11,1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
1/19/86	20	45	38	40	0	174	0	0
1/20/86	20	45	38	41	0	175	0	0
1/21/86	26	45	50	41	0	200	0	0
1/22/86	31	44	62	40	0	231	0	0
1/23/86	31	44	62	40	0	231	0	0
1/24/86	31	44	62	40	0	231	0	0
1/25/86	31	44	62	40	0	230	0	0
1/26/86	31	44	62	40	0	230	0	0
1/27/86	30	44	62	40	0	231	0	0
1/28/86	30	44	47	40	0	213	0	0
1/29/86	30	44	37	40	0	201	0	0
1/30/86	30	44	37	39	0	201	0	0
1/31/86	30	44	37	40	0	200	0	0
2/ 1/86	27	40	34	38	0	200	0	0
2/ 2/86	27	40	34	38	0	200	0	0
2/ 3/86	27	39	34	38	0	200	0	0
2/ 4/86	20	39	34	38	0	187	0	0
2/ 5/86	14	39	33	38	0	171	0	0
2/ 6/86	14	39	33	37	0	171	0	0
2/ 7/86	14	39	33	37	0	171	0	0
2/ 8/86	14	39	33	37	0	170	0	0
2/ 9/86	14	39	33	37	0	171	0	0
2/10/86	14	39	33	37	0	170	0	0
2/11/86	14	31	33	37	0	158	0	0
2/12/86	14	21	34	37	0	143	0	0
2/13/86	14	22	34	38	0	143	0	0
2/14/86	14	22	33	37	0	142	0	0
2/15/86	14	21	33	37	0	143	0	0
2/16/86	14	21	33	37	0	142	0	0
2/17/86	14	21	33	37	0	142	0	0
2/18/86	14	21	33	37	0	142	0	0
2/19/86	14	22	34	21	0	125	0	0
2/20/86	14	22	34	13	0	115	0	0
2/21/86	14	22	34	13	0	115	0	0
2/22/86	14	22	34	13	0	115	0	0
2/23/86	14	22	34	13	0	115	0	0
2/24/86	14	22	34	13	0	115	0	0
2/25/86	14	22	34	13	0	116	0	0
2/26/86	14	22	34	13	0	115	0	0
2/27/86	14	21	33	13	0	114	0	0
2/28/86	14	21	33	13	0	114	0	0
3/ 1/86	14	22	33	13	0	116	0	0
3/ 2/86	14	22	34	13	0	115	0	0
3/ 3/86	14	21	29	13	178	114	0	204
3/ 4/86	14	21	33	13	385	114	0	398
3/ 5/86	14	21	33	13	431	114	0	452
3/ 6/86	14	21	33	13	430	114	0	448
3/ 7/86	14	21	33	13	429	113	0	448

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
3/ 8/86	14	21	33	12	426	113	0	446
3/ 9/86	14	21	32	12	419	112	0	444
3/10/86	13	21	32	12	262	111	0	271
3/11/86	14	22	27	13	0	100	0	0
3/12/86	14	22	19	13	0	85	0	0
3/13/86	14	22	19	13	0	85	0	0
3/14/86	14	22	19	13	0	85	0	0
3/15/86	14	22	19	13	0	86	0	0
3/16/86	14	22	19	13	0	86	0	0
3/17/86	14	23	19	13	0	87	0	0
3/18/86	15	32	31	30	0	119	0	0
3/19/86	14	36	37	42	486	143	0	0
3/20/86	14	35	37	41	717	143	0	0
3/21/86	14	36	38	42	728	145	0	0
3/22/86	15	37	39	43	732	147	0	0
3/23/86	15	37	39	43	725	146	0	0
3/24/86	15	37	39	43	717	146	0	0
3/25/86	33	45	47	51	908	191	0	0
3/26/86	51	53	56	62	999	257	0	0
3/27/86	51	53	57	63	1015	258	0	0
3/28/86	51	53	57	63	1002	258	0	0
3/29/86	51	53	57	63	1001	258	0	0
3/30/86	50	53	57	63	988	257	0	0
3/31/86	50	53	57	63	982	256	0	0
4/ 1/86	102	94	98	107	987	470	0	0
4/ 2/86	126	116	120	131	982	588	0	0
4/ 3/86	124	114	118	130	971	582	0	0
4/ 4/86	122	113	117	129	959	577	0	0
4/ 5/86	120	112	116	128	948	574	0	0
4/ 6/86	119	111	115	127	937	572	0	0
4/ 7/86	117	109	114	126	927	572	0	0
4/ 8/86	115	108	112	125	916	603	0	0
4/ 9/86	112	115	110	123	911	618	0	0
4/10/86	111	125	109	122	897	614	0	0
4/11/86	110	125	109	121	892	611	0	0
4/12/86	109	124	107	119	886	606	0	0
4/13/86	109	124	108	120	881	606	0	0
4/14/86	110	124	108	120	868	605	0	0
4/15/86	80	104	79	91	859	470	0	0
4/16/86	61	84	61	72	857	374	0	0
4/17/86	61	78	61	72	350	374	0	0
4/18/86	61	78	60	72	0	373	0	0
4/19/86	61	78	61	71	0	372	0	0
4/20/86	61	78	60	71	0	370	0	0
4/21/86	60	76	60	70	0	371	0	0
4/22/86	60	65	60	60	0	326	0	0
4/23/86	60	59	60	53	0	291	0	0
4/24/86	60	59	60	53	0	290	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
4/25/86	59	58	59	53	0	288	0	174
4/26/86	59	58	59	52	0	288	0	254
4/27/86	58	57	58	52	0	287	0	251
4/28/86	58	57	58	51	0	287	0	254
4/29/86	57	52	53	51	0	254	0	322
4/30/86	57	47	46	51	0	233	0	344
5/ 1/86	56	47	46	50	0	232	0	344
5/ 2/86	55	46	45	50	0	233	0	344
5/ 3/86	54	46	45	50	0	231	0	345
5/ 4/86	54	45	45	49	0	230	0	333
5/ 5/86	53	45	44	49	0	228	0	324
5/ 6/86	39	36	37	42	0	180	0	326
5/ 7/86	25	28	30	35	0	153	0	330
5/ 8/86	25	28	30	34	0	153	0	319
5/ 9/86	24	28	30	34	0	153	0	314
5/10/86	24	28	30	34	0	153	0	329
5/11/86	24	28	29	34	0	152	0	327
5/12/86	23	27	29	33	0	152	0	322
5/13/86	17	22	29	33	0	126	0	318
5/14/86	12	18	29	33	0	101	0	321
5/15/86	12	18	29	33	0	101	0	323
5/16/86	12	18	29	33	0	100	0	321
5/17/86	12	18	28	32	0	100	0	316
5/18/86	12	18	28	32	0	100	0	311
5/19/86	11	18	28	32	0	100	0	289 E
5/20/86	11	18	19	21	0	85	0	253 E
5/21/86	11	18	15	14	0	75	0	244 E
5/22/86	12	18	15	14	0	76	0	209 E
5/23/86	12	19	15	14	0	76	0	73 E
5/24/86	12	19	15	14	0	76	0	0 E
5/25/86	12	19	15	14	0	76	0	0 E
5/26/86	12	19	15	14	0	76	0	0 E
5/27/86	12	28	24	14	0	80	0	178 E
5/28/86	12	30	27	14	0 E	100	0	310 E
5/29/86	12	28	26	13	0	109	0	305 E
5/30/86	11	27	25	13	0	108	0	366 E
5/31/86	11	27	25	13	0	108	0	340 E
6/ 1/86	11	26	24	13	0	108	0	330 E
6/ 2/86	11	26	24	13	0	108	0	334 E
6/ 3/86	11	27	25	13	0	109	0	336 E
6/ 4/86	11	27	25	13	0	109	0	320 E
6/ 5/86	11	27	24	13	0	108	0	308 E
6/ 6/86	11	27	24	13	0	108	0	297 E
6/ 7/86	11	27	24	13	0	109	0	256 E
6/ 8/86	11	28	24	13	0	109	0	227 E
6/ 9/86	11	28	25	13	0	110	0	238 E
6/10/86	6	14	14	22	0	79	0	88 E
6/11/86	0	0	0	31	0	38	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
6/12/86	0	0	0	32	0	38	0	0
6/13/86	0	0	0	33	0	38	0	0
6/14/86	0	0	0	33	0	38	0	0
6/15/86	0	0	0	33	0	39	0	0
6/16/86	0	0	0	34	0	39	0	0
6/17/86	8	8	9	25	0	62	0	0
6/18/86	14	15	16	18	0	79	0	0
6/19/86	14	15	16	19	0	79	0 P	0
6/20/86	15	16	17	20	454	81	M	0
6/21/86	16	16	17	20	919	80	M	0
6/22/86	16	17	18	20	917	81	M	0
6/23/86	16	17	18	20	920	272	0 P	0
6/24/86	16	17	17	20	929	598	0	0
6/25/86	64	67	66	67	928	595	0	0
6/26/86	87	95	92	90	934	594	0	0
6/27/86	86	95	92	90	939	595	0	0
6/28/86	87	95	92	90	960	597	0	0
6/29/86	89	97	94	91	979	599	0	0
6/30/86	132	145	141	139	1003	601	0	0
7/ 1/86	233	223	252	239	1009	647	0	0
7/ 2/86	275	247	303	303	1201	717	0	0
7/ 3/86	262	241	297	297	1382	841	0	0
7/ 4/86	258	237	293	295	1386	849	0	0
7/ 5/86	259	238	296	298	1399	834	0	0
7/ 6/86	265	242	300	302	1398	801	0	0
7/ 7/86	311	290	395	430	1397	787	0	0
7/ 8/86	361	363	540	604	1395	775	0	0
7/ 9/86	350	350	466	645	1399	770	0	0
7/10/86	345	342	464	641	1390	769	0	0
7/11/86	345	338	467	651	1403	770	0	0
7/12/86	334	325	468	655	1405	768	0	0
7/13/86	322	311	469	660	1397	767	0	0
7/14/86	315	300	471	664	1402	768	0	0
7/15/86	305	288	471	666	1398	767	0	0
7/16/86	294	275	471	670	1378	766	0	0
7/17/86	284	262	471	672	1346	765	0	0
7/18/86	281	254	473	677	1345	765	0	0
7/19/86	289	261	483	686	1324	766	0	0
7/20/86	279	251	474	681	1310	763	0	0
7/21/86	280	250	476	679	1249	760	0	0
7/22/86	302	270	467	562	1221	768	0	0
7/23/86	300	266	437	393	1209	769	0	0
7/24/86	295	262	440	394	1187	767	0 P	0
7/25/86	292	257	435	395	1236	764	0	0 E
7/26/86	299	260	437	397	1312	732	0	0
7/27/86	316	278	465	415	1328	568	0	0
7/28/86	321	282	466	421	1328	510	0	0
7/29/86	322	282	468	352	1313	514	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD
7/30/86	322	277	468	322	1289	526	0	0
7/31/86	320	274	459	322	1286	593	0	0
8/ 1/86	325	275	457	397	1290	670	0	0
8/ 2/86	328	278	456	393	1303	705	0	0
8/ 3/86	329	277	459	393	1296	702	0	0
8/ 4/86	329	277	459	395	1295	662	0	0
8/ 5/86	329	278	391	367	1292	628	0	0
8/ 6/86	329	279	272	274	1277	633	0	0
8/ 7/86	326	278	275	277	1271	634	0	0
8/ 8/86	322	274	274	277	1272	633	0	0
8/ 9/86	320	270	271	275	1266	629	0	0
8/10/86	313	264	267	272	1251	626	0	0
8/11/86	320	273	271	276	1252	628	0	0
8/12/86	265	255	257	253	1267	629	0	0
8/13/86	238	249	251	241	1257	630	0	0
8/14/86	245	255	256	246	1252	584	0	0
8/15/86	246	254	255	245	1239	537	0	0
8/16/86	247	256	257	246	1252	533	0	0
8/17/86	250	263	262	250	1295	466	0	0
8/18/86	255	268	266	252	1291	440	0	0
8/19/86	295	274	291	299	1309	221	0	0
8/20/86	270	248	262	296	1292	261	0	0
8/21/86	217	204	218	233	1294	461	0	0
8/22/86	223	208	222	237	1294	497	0	0
8/23/86	225	210	224	238	1284	530	0	0
8/24/86	227	210	225	239	1283	531	0	0
8/25/86	228	210	225	239	1284	507	0	0
8/26/86	250	235	235	280	1279	477	0	0
8/27/86	260	250	240	305	1266	478	0	0
8/28/86	259	248	239	304	1266	509	0	0
8/29/86	259	248	239	305	1268	530	0	0
8/30/86	254	246	237	302	1251	527	0	0
8/31/86	253	243	234	301	1239	526	0	0
9/ 1/86	250	241	233	299	1224	526	0	0
9/ 2/86	248	237	232	294	1208	567	0	0
9/ 3/86	226	223	232	260	1191	576	0	0
9/ 4/86	217	217	233	241	1209	577	0	0
9/ 5/86	218	220	236	244	1263	547	0	0
9/ 6/86	220	220	237	247	1262	491	0	0
9/ 7/86	225	225	240	249	1269	477	0	0
9/ 8/86	226	226	240	249	1260	477	0	0
9/ 9/86	185	189	211	212	1270	478	0	0
9/10/86	146	157	178	178	1250	480	0	0
9/11/86	146	156	178	178	1237	480	0	0
9/12/86	146	156	178	178	1235	509	0	0
9/13/86	146	156	177	178	1227	532	0	0
9/14/86	145	155	176	177	1214	531	0	0
9/15/86	145	154	175	176	513	529	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11,1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
9/16/86	147	156	163	176	0	545	0	0
9/17/86	149	156	157	177	0	556	0	0
9/18/86	150	154	158	177	0	557	0	0
9/19/86	150	157	167	178	0	557	0	0
9/20/86	149	156	158	178	0	503	0	0
9/21/86	152	159	161	179	0	479	0	0
9/22/86	155	160	162	181	0	484	0	0
9/23/86	134	136	140	156	0	486	0	0
9/24/86	118	118	120	133	0	489	0	0
9/25/86	119	119	121	134	0	489	0	0
9/26/86	120	120	121	135	0	490	0	0
9/27/86	120	120	122	135	0	491	0	0
9/28/86	120	120	122	135	0	530	0	0
9/29/86	119	119	121	134	0	543	0	0
9/30/86	119	129	125	145	0	542	0	0
10/ 1/86	119	141	128	151	0	541	0	0
10/ 2/86	119	134	128	150	0	543	0	0
10/ 3/86	119	134	129	151	0	543	0	0
10/ 4/86	119	134	128	150	0	543	0	0
10/ 5/86	118	133	128	150	0	543	0	0
10/ 6/86	117	132	127	149	0	542	0	0
10/ 7/86	117	132	127	137	0	574	0	0
10/ 8/86	116	130	126	131	0 P	642	0	0
10/ 9/86	116	129	125	130	0	664	0	0
10/10/86	114	128	124	130	0	630	0	0
10/11/86	114	128	125	129	0	553	0	0
10/12/86	114	128	124	129	0	531	0	0
10/13/86	114	127	124	129	0	532	0	0 P
10/14/86	145	145	156	157	0	532	0	0 E
10/15/86	180	164	192	183	0	533	0	0 E
10/16/86	181	165	193	185	0	534	0	0 E
10/17/86	180	161	192	184	0	533	0	0 P
10/18/86	178	164	190	183	0	532	0	0
10/19/86	177	163	189	182	0	531	0	0
10/20/86	177	163	188	181	0	531	0	0
10/21/86	176	111	137	182	0	498	0	0
10/22/86	176	87	114	182	0	479	0	0
10/23/86	175	87	114	181	0	478	0	0
10/24/86	173	86	113	180	0	477	0	0
10/25/86	172	86	113	180	0	478	0	0
10/26/86	171	85	112	179	0	477	0	0
10/27/86	170	85	112	179	0	477	0	0
10/28/86	103	67	77	112	0	372	0	0
10/29/86	50	54	49	47	0	267	0	0
10/30/86	51	55	50	48	0	269	0	0
10/31/86	51	56	50	48	0	271	0	0
11/ 1/86	52	56	51	49	0 P	272	0	0
11/ 2/86	52	57	51	49	0	273	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
11/ 3/86	52	57	51	49	0	274	0	0
11/ 4/86	40	52	54	44	0	259	0	0
11/ 5/86	34	50	56	42	0	248	0	0
11/ 6/86	34	50	56	42	0	248	0	0
11/ 7/86	34	50	56	42	0	248	0	0
11/ 8/86	36	50	56	42	0	248	0	0
11/ 9/86	35	50	56	42	0	248	0	0
11/10/86	35	44	47	42	0	231	0	92
11/11/86	35	35	29	42	0	195	0	139
11/12/86	35	35	29	42	0	195	0	139
11/13/86	35	35	29	42	0	196	0	215
11/14/86	35	35	29	42	0	196	0	256
11/15/86	35	35	29	42	0	196	0	246
11/16/86	35	35	29	43	0	197	0	243
11/17/86	36	36	29	43	208	197	0	324
11/18/86	19	27	29	43	419	164	0	398
11/19/86	11	22	30	43	419	143	0	400
11/20/86	11	22	30	43	419	143	0	399
11/21/86	11	22	30	43	419	144	0	405
11/22/86	11	23	30	43	418	143	0	396
11/23/86	11	23	30	43	416	143	0	388
11/24/86	11	23	30	43	416	143	0	389
11/25/86	11	23	30	31	416	127	0	387
11/26/86	11	23	30	22	416	115	0	392
11/27/86	11	23	30	22	416	116	0	393
11/28/86	11	23	30	22	415	116	0	392
11/29/86	11	23	30	22	255	115	0	265
11/30/86	11	23	30	23	0	116	0	0
12/ 1/86	11	23	30	23	0	116	0	0
12/ 2/86	11	23	19	23	0	116	0	0
12/ 3/86	11	23	12	23	0	116	0	0
12/ 4/86	11	23	12	23	0	116	0	0
12/ 5/86	11	23	12	23	0	116	0	0
12/ 6/86	12	23	12	23	0	116	0	0
12/ 7/86	12	23	12	23	0	116	0	0
12/ 8/86	11	23	12	23	0	116	0	0
12/ 9/86	5	11	12	23	0	85	0	0
12/10/86	0	0	13	23	0	58	0	0
12/11/86	0	0	13	23	0	58	0	0
12/12/86	0	0	13	23	0	58	0	0
12/13/86	0	0	13	23	0	59	0	0
12/14/86	0	0	13	23	0	59	0	0
12/15/86	0	0	13	23	0	143	140	0
12/16/86	0	0	13	12	0	193	206	0
12/17/86	0	0	13	0	0	229	239	0
12/18/86	0	0	13	0	0	263	288	0
12/19/86	0	0	13	0	0	263	289	0
12/20/86	0	0	13	0	0	263	291	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
12/21/86	0	0	13	0	0	263	293	0
12/22/86	0	0	13	0	0	262	294	0
12/23/86	0	0	13	0	0	261	293	0
12/24/86	0	0	12	0	0	183	208	0
12/25/86	0	0	13	0	0	0	0	0
12/26/86	0	0	13	0	0	0	0	0
12/27/86	0	0	13	0	0	0	0	0
12/28/86	0	0	13	0	0	0	0	0
12/29/86	0	0	13	0	0	0	0	0
12/30/86	0	0	13	0	0	12	0	0
12/31/86	0	0	13	0	0	30	0	0
1/ 1/87	0	0	13	0	0	30	0	0
1/ 2/87	0	0	13	0	0	30	0	0
1/ 3/87	0	0	13	0	0	30	0	0
1/ 4/87	0	0	13	0	0	30	0	0
1/ 5/87	0	0	13	0	0	31	0	0
1/ 6/87	8	8	25	15	0	70	0	0
1/ 7/87	20	20	43	43	0	151	0	0
1/ 8/87	20	20	43	43	0	151	0	0
1/ 9/87	20	20	43	42	0	150	0	0
1/10/87	20	20	43	42	0	150	0	0
1/11/87	20	20	43	43	0	151	0	0
1/12/87	20	20	43	43	0	151	0	0
1/13/87	37	39	52	42	0	189	0	0
1/14/87	54	61	61	42	0	237	0	0
1/15/87	54	60	61	42	0	237	0	0
1/16/87	54	60	61	42	0	277	48	0
1/17/87	54	60	61	42	0	327	116	0
1/18/87	53	60	60	42	0	326	116	0
1/19/87	53	60	60	42	0	326	117	0
1/20/87	47	54	60	42	0	356	155	0
1/21/87	33	42	60	42	0	418	229	0
1/22/87	33	41	60	41	0	417	229	0
1/23/87	33	42	60	42	0	498	420	0
1/24/87	33	41	60	41	0	549	523	0
1/25/87	33	41	59	41	0	547	511	0
1/26/87	33	41	59	41	0	550	518	0
1/27/87	33	41	46	41	0	626	530	0
1/28/87	33	41	40	41	0	661	538	0
1/29/87	33	41	40	41	0	659	542	0
1/30/87	32	41	40	41	104	659	541	0
1/31/87	32	41	40	41	202	658	543	0
2/ 1/87	32	41	39	41	200	654	544	0
2/ 2/87	32	40	39	40	200	653	542	0
2/ 3/87	21	29	39	40	199	487	376	0
2/ 4/87	15	23	39	41	67	506	390	0
2/ 5/87	15	23	39	40	0	472	322	0
2/ 6/87	15	23	40	41	0	203	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
2/ 7/87	15	23	40	41	0	204	0	0
2/ 8/87	15	23	40	41	0	205	0	0
2/ 9/87	15	23	40	41	0	491	352	0
2/10/87	15	23	40	41	0	683	558	0
2/11/87	15	23	39	40	0	681	555	0
2/12/87	15	23	39	40	0	679	558	0
2/13/87	15	23	39	40	0	678	560	0
2/14/87	15	22	39	40	0	676	557	0
2/15/87	15	22	39	40	0	673	552	0
2/16/87	14	22	38	39	0	666	548	0
2/17/87	15	22	38	40	0	670	557	0
2/18/87	15	22	39	40	0	658	558	0
2/19/87	15	23	39	40	0	653	558	0
2/20/87	15	23	39	40	0	651	559	0
2/21/87	15	23	39	40	0	649	554	0
2/22/87	15	22	39	40	0	647	554	0
2/23/87	15	22	39	40	0	648	557 E	0 E
2/24/87	15	22	39	40	0	738	651	0
2/25/87	15	22	38	39	0	785	708	0
2/26/87	15	22	38	39	0	780	702	0
2/27/87	14	22	38	39	0	777	706	0
2/28/87	14	22	37	38	0	772	702	0
3/ 1/87	14	21	37	38	0	768	704	0
3/ 2/87	14	22	37	38	0	771	699	0
3/ 3/87	14	22	38	39	0	772	682	0
3/ 4/87	14	22	38	39	0	770	676	0
3/ 5/87	14	22	38	39	0	393	272	0
3/ 6/87	14	22	38	39	0	167	0	0
3/ 7/87	15	22	40	41	0	173	0	0
3/ 8/87	15	23	41	42	0	175	0	0
3/ 9/87	15	24	41	42	0	176	0	0
3/10/87	15	24	41	31	344	158	0	0
3/11/87	15	24	41	24	727	148	0	0
3/12/87	15	24	41	24	718	147	0	0
3/13/87	15	24	41	24	707	148	0	0
3/14/87	15	24	41	24	695	147	0	0
3/15/87	15	23	40	24	686	146	0	0
3/16/87	15	23	40	23	676	146	0	0
3/17/87	45	51	50	44	668	231	0	0
3/18/87	64	73	57	60	656	311	0	0
3/19/87	62	72	56	59	651	382	73	0
3/20/87	62	71	56	59	298	488	193	0
3/21/87	62	71	55	59	0	540	242	0
3/22/87	62	71	55	58	0	537	241	0
3/23/87	62	72	55	58	0	535	239	0
3/24/87	62	71	55	58	0	408	85	0
3/25/87	63	71	56	58	0 E	334	0	0
3/26/87	62	71	56	58	0	334	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
3/27/87	63	72	56	59	319	336	0	0
3/28/87	62	71	56	59	638	335	0	0
3/29/87	62	71	56	59	632	336	0	0
3/30/87	62	71	56	59	822	336	0	0
3/31/87	62	72	64	71	932	351	0	0
4/ 1/87	63	72	73	84	948	367	0	0
4/ 2/87	63	71	72	84	927	364	0	0
4/ 3/87	62	70	71	82	921	362	0	0
4/ 4/87	62	70	70	82	903	362	0	0
4/ 5/87	61	69	70	81	883	360	0	0
4/ 6/87	60	68	69	81	863	456	78	0
4/ 7/87	88	86	92	96	843	627	149	60
4/ 8/87	114	103	115	114	826	719	151	124
4/ 9/87	111	102	113	112	854	713	149	124
4/10/87	107	100	111	111	617	706	150	128
4/11/87	106	98	110	110	374	702	150	128
4/12/87	105	97	109	109	380	696	150	128
4/13/87	103	96	108	107	384	692	149	202 E
4/14/87	85	85	86	91	399	691	196	242 E
4/15/87	67	75	61	70	405	695	233	239 E
4/16/87	67	75	62	70	410	696	233	236 E
4/17/87	66	74	62	70	405	729	274	233 E
4/18/87	65	73	61	69	380	763	316	230
4/19/87	65	73	60	68	378	759	316	232
4/20/87	64	73	60	68	631	530	103	419
4/21/87	64	73	60	68	798 E	361	0	580
4/22/87	64	72	60	68	780	332	0	581
4/23/87	63	71	60	67	772	331	0	584
4/24/87	62	70	59	67	762	328	0	586
4/25/87	61	69	58	65	758	324	0	585
4/26/87	60	68	57	65	739	321	0	588
4/27/87	59	67	57	64	855	320	0	675
4/28/87	58	66	56	63	928	317	0	719
4/29/87	57	65	54	62	930	315	0	714
4/30/87	55	63	53	61	891	380	87	737
5/ 1/87	53	62	52	60	722 P	460	173	769
5/ 2/87	52	60	51	59	535 P	456	174	762
5/ 3/87	51	59	50	57	807	451	175	761
5/ 4/87	49	57	49	57	822 P	448	176	755
5/ 5/87	43	48	41	48	819 P	419	176	750
5/ 6/87	39	42	37	41	731 P	397	174	573
5/ 7/87	38	41	36	40	803	394	179	749
5/ 8/87	37	40	36	40	294	293	59	220
5/ 9/87	37	40	36	41	92	229	0	0
5/10/87	37	41	37	42	92	230	0	0
5/11/87	39	42	38	43	32	233	0	0
5/12/87	34	38	39	43	0 P	205	0	0
5/13/87	31	35	39	43	0 P	188	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
5/14/87	31	35	39	43	0	189	0	0
5/15/87	32	35	39	44	0 P	190	0	0
5/16/87	32	35	39	44	0 P	190	0	0
5/17/87	32	35	39	43	0 P	189	0	0
5/18/87	31	35	39	43	0 P	190	0	0
5/19/87	32	42	46	43	0 P	204	0	0
5/20/87	32	44	51	43	0	211	0	0
5/21/87	31	43	50	43	0	211	0	0
5/22/87	31	43	49	43	0	210	0	0
5/23/87	30	42	49	42	0	209	0	0
5/24/87	30	41	48	42	0 P	208	0	0
5/25/87	29	40	47	42	0	208	0	0
5/26/87	32	39	47	47	0	216	0	0
5/27/87	35	37	46	54	0	227	0	0
5/28/87	34	36	45	53	0	225	0	0
5/29/87	33	35	44	53	0	224	0	0
5/30/87	32	34	44	53	0 P	224	0	0
5/31/87	31	33	43	52	0	222	0	0
6/ 1/87	30	32	41	51	273 P	221	0	0
6/ 2/87	29	32	36	44	745	183	0	330
6/ 3/87	29	31	32	40	888	157	0	487
6/ 4/87	28	30	31	38	881	155	0	484
6/ 5/87	27	29	30	37	859	154	0	484
6/ 6/87	25	27	29	36	824	152	0	482
6/ 7/87	24	25	28	35	792	150	0	473
6/ 8/87	23	24	27	35	764	149	0	477
6/ 9/87	15	16	21	20	753	116	0	471
6/10/87	12	13	19	9	748	86	0	469
6/11/87	11	12	18	9	839	85	0	622
6/12/87	9	11	17	8	879	83	0	705
6/13/87	7	9	15	8	858	82	0	700
6/14/87	5	8	14	7	832	79	0	691
6/15/87	1	7	12	6	850	77	0	873
6/16/87	0	3	11	6	888	49	0	974
6/17/87	0	0	10	5	864	19	0	953
6/18/87	0	0	8	4	806	18	0	911
6/19/87	0	0	6	3	773	17	0	920
6/20/87	0	0	5	2	746	17	0	894
6/21/87	0	0	5	-1	724	16	0	874
6/22/87	0	0	2	-2	724	15	0	858
6/23/87	0	0	2	0	773	7	0	934
6/24/87	0	0	0	0	806	0	0	995
6/25/87	0	0	0	0	471	0	0	625
6/26/87	0	0	0	0	-241 ?	0	0	0
6/27/87	0	0	0	0	138	0	0	0
6/28/87	0	0	0	0	311	0	0	0
6/29/87	0	0	0	0	410	0	0	0
6/30/87	0	0	0	0	498	0	0	0

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD
7/ 1/87	0	0	0	0	89	0	0	0
7/ 2/87	0	0	0	0	0 P	0	0	0
7/ 3/87	0	0	0	0	0 P	0	0	0
7/ 4/87	0	0	0	0	0 P	0	0	0
7/ 5/87	0	0	0	0	0 P	0	0	0
7/ 6/87	0	0	0	0	0 P	0	0	0
7/ 7/87	0	0	0	0	0 P	0	0	0
7/ 8/87	0	0	0	0	0 P	0	0	0
7/ 9/87	0	0	0	0	0 P	0	0	0
7/10/87	0	0	0	0	0 P	0	0	0
7/11/87	0	0	0	0	0 P	0	0	0
7/12/87	0	0	0	0		0		
7/13/87	0	0	0	0		0		
7/14/87	0	0	0	0		0		
7/15/87	0	0	0	0		0		
7/16/87	0	0	0	0		0		
7/17/87	0	0	0	0		0		
7/18/87	0	0	0	0		0		
7/19/87	0	0	0	0		0		
7/20/87	0	0	0	0		0		
7/21/87	0	0	0	0		0		
7/22/87	0	0	0	0		0		
7/23/87	0	0	0	0		0		
7/24/87	0	0	0	0		0		
7/25/87	0	0	0	0		0		
7/26/87	0	0	0	0		0		
7/27/87	0	0	0	0		0		
7/28/87	0	0	0	0		0		
7/29/87	0	0	0	0		0		
7/30/87	0	0	0	0		0		
7/31/87	0	0	0	0		0		
8/ 1/87	0	0	0	0		0		
8/ 2/87	0	0	0	0		0		
8/ 3/87	0	0	0	0		0		
8/ 4/87	0	0	0	0		0		
8/ 5/87	0	0	0	0		0		
8/ 6/87	0	0	0	0		0		
8/ 7/87	0	0	0	0		0		
8/ 8/87	0	0	0	0		0		
8/ 9/87	0	0	0	0		0		
8/10/87	0	0	0	0		0		
8/11/87	0	0	0	0		0		
8/12/87	0	0	0	0		0		
8/13/87	0	0	0	0		0		
8/14/87	0	0	0	0		0		
8/15/87	0	0	0	0		0		
8/16/87	0	0	0	0		0		
8/17/87	0	0	0	0		0		

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD
8/18/87	0	0	0	0		0		
8/19/87	0	0	0	0		0		
8/20/87	0	0	0	0		0		
8/21/87	0	0	0	0		0		
8/22/87	0	0	0	0		0		
8/23/87	0	0	0	0		0		
8/24/87	0	0	0	0		0		
8/25/87	0	0	0	0		0		
8/26/87	0	0	0	0		0		
8/27/87	0	0	0	0		0		
8/28/87	0	0	0	0		0		
8/29/87	0	0	0	0		0		
8/30/87	0	0	0	0		0		
8/31/87	0	0	0	0		0		
9/ 1/87	0	0	0	0		0		
9/ 2/87	0	0	0	0		0		
9/ 3/87	0	0	0	0		0		
9/ 4/87	0	0	0	0		0		
9/ 5/87	0	0	0	0		0		
9/ 6/87	0	0	0	0		0		
9/ 7/87	0	0	0	0		0		
9/ 8/87	0	0	0	0		0		
9/ 9/87	0	0	0	0		0		
9/10/87	0	0	0	0		0		
9/11/87	0	0	0	0		0		
9/12/87	0	0	0	0		0		
9/13/87	0	0	0	0		0		
9/14/87	0	0	0	0		0		
9/15/87	0	0	0	0		0		
9/16/87	0	0	0	0		0		
9/17/87	0	0	0	0		0		
9/18/87	0	0	0	0		0		
9/19/87	0	0	0	0		0		
9/20/87	0	0	0	0		0		
9/21/87	0	0	0	0		0		
9/22/87	0	0	0	0		0		
9/23/87	0	0	9	0		18		
9/24/87	0	0	15	0		26		
9/25/87	0	0	15	0		26		
9/26/87	0	0	15	0		26		
9/27/87	0	0	15	0		27		
9/28/87	0	0	15	0		27		
9/29/87	18	23	28	22		91		
9/30/87	27	34	35	34		137		
10/ 1/87	28	34	36	35		123		
10/ 2/87	29	35	37	36		125		
10/ 3/87	29	36	37	36		126		
10/ 4/87	30	36	37	36		127		

Table D.3 Average Daily Flow Rates (cfs), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
10/ 5/87	30	36	37	36		127		
10/ 6/87	67	70	71	71		289		
10/ 7/87	91	89	94	96		394		
10/ 8/87	89	88	93	95		392		
10/ 9/87	88	88	93	95		392		
10/10/87	89	89	94	96		394		
10/11/87	92	90	95	97		398		
10/12/87	100	96	101	102		187		
10/13/87	108	106	115	115		245		
10/14/87	109	107	123	122		518		
10/15/87	109	107	123	122		517		
10/16/87	109	106	123	122		517		
10/17/87	109	106	122	122		517		
10/18/87	107	105	122	121		517		
10/19/87	107	104	122	121		517		
10/20/87	116	113	121	130		608		
10/21/87	122	120	120	137		617		
10/22/87	122	120	120	137		627		
10/23/87	122	119	119	136		676		
10/24/87	121	118	118	135		674		
10/25/87	119	117	117	135		676		
10/26/87	118	116	117	134		675		
10/27/87	128	124	143	147		749		
10/28/87	131	127	159	157		782		
10/29/87	130	124	158	156		778		
10/30/87	128	122	157	155		775		
10/31/87	128	122	156	154		773		

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/11/85	0	0	111	2 E	0	0	0	0	0	0	72 E
7/12/85	293	0	106	1 E	0	266	224	0	0	96	6 E
7/13/85	844	0	102	1 E	0	625	577	0	0	228	57 E
7/14/85	789	0	103	1 E	0	635	570	0 P	0	230	51 E
7/15/85	756	0	103	1 E	0	630	565	M	0	231	90 E
7/16/85	595	0	99	0 E	0	407	277	0 P	0	223	140 E
7/17/85	597	0	127	1	0	539	455	0	0	274	140 E
7/18/85	667	0	119	10	0	456	480	0	0	260	140 E
7/19/85	721	0	117	0	0	420	578	0	0	256	140 E
7/20/85	728	0	111	0	0	471	595	0	0	244	140 E
7/21/85	745	0	30 E	0	0	643	617	0	0	625 E	140 E
7/22/85	824	6	26	68	167	615	713	186	159	394	140 E
7/23/85	1350	31	0	205	524	675	1227	915	752	0	140 E
7/24/85	696	32	0	255	524	731	1136	379	561	165	140 E
7/25/85	1120	32	0 E	324	498	835	1067	197	397	1164 E	140 E
7/26/85	1060	137	0	291	489	804	955	0	0	943	140 E
7/27/85	1050	273	0	281	479	781	884	0	0	914	140 E
7/28/85	1020	259	0	273	439	740	826	0	0	818	140 E
7/29/85	893	116	0 E	231	311 E	606	488	0	0	656 E	140 E
7/30/85	746	0	0 E	89	0	580	389	0	0	655 E	140 E
7/31/85	778	0	0 E	9	0	611	466	0	0	606 E	140 E
8/ 1/85	556	0	0 E	22	0	658	697	0	0	400 E	140
8/ 2/85	601	0	0 E	73	156	689	654	0	0	932 E	84
8/ 3/85	549	0	0 E	106	228	661	634	0	0	1103 E	60
8/ 4/85	626	0	0 E	63	220	682	627	0	0	680 E	60
8/ 5/85	728	0	0 E	46	209	688	716	0	0	676 E	33
8/ 6/85	744	0	0 E	-38	214	659	721	0	0	292 E	35
8/ 7/85	743	0	0 E	-31	208	650	695	0	0	480 E	25 P
8/ 8/85	628	0	0	1	182	605	498	0	0	338	31 P
8/ 9/85	591	0	0	1	171	604	506	0	0	306	37
8/10/85	588	0	0	0	169	597	500	0	0	316	0
8/11/85	668	0	0	0	162	588	483	0	0	336	0
8/12/85	600	0	0 E	0	154	694	494	0	0	769 E	43
8/13/85	586	0	0 E	0	148	682	491	0	0	666 E	60
8/14/85	431	0	0 E	93	166	516	151	225	0	660 E	60
8/15/85	246	0	0 E	135	200	381	10	0	0	444 E	60
8/16/85	160	0	90	5	182	397	10	0	0	202	60
8/17/85	78	0	141	0	170	445	10	0	0	298	35 P
8/18/85	20	0	139	0	176	455	10	0	0	295	27 P
8/19/85	149	0	49 E	0	179	579	390	0	0	493 E	53 P
8/20/85	230	0	0 E	0	170	436	321	0	0	440 E	23 P
8/21/85	141	0	0 E	0	164	434	238	0	0	420 E	28 P
8/22/85	118	0	0 E	0	159	441	225	0	0	465 E	50 P
8/23/85	63	0	0 E	0	153	385	171	0	0	417 E	10 P
8/24/85	-63	0	0	0	153	151	9	0	0	0	24 E
8/25/85	-139	0	0	0	147	12	8	0	0	0	11 E
8/26/85	-97	0	0	0	80	188	8	0	0	259	35 E
8/27/85	0	0	0	0	0	236	8	0	0	361	60

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
8/28/85	0	0	0	0	0	202	9	0	0	140	60
8/29/85	227	0	0	0	0	566	285	0	0	653	60
8/30/85	410	0	0 E	26	0	624	403	0	0	677 E	60
8/31/85	346	0	0 E	111	0	563	365	0	0	1006 E	60
9/ 1/85	382	0	0	168	0	719	491	0	0	1369	60
9/ 2/85	435	0	0	72	0	696	496	0	0	813	60
9/ 3/85	425	0	0	-98	0	577	452	0	0	234	60
9/ 4/85	392	0	0	-14	0	343	200	0	0	373	49 E
9/ 5/85	486	0	0	0	0	383	438	0	0	384	81 E
9/ 6/85	489	0	0	0	0	403	427	0	0	401	116 E
9/ 7/85	463	0	0	0	0	406	384	0	0	412	116 E
9/ 8/85	361	0	0	1	0	407	223	0	0	399	116 E
9/ 9/85	509	0	0 E	55	0	625	497	0	0	776 E	116 E
9/10/85	515	0	0 E	63	0	630	492	0	0	978 E	116 E
9/11/85	636	0	0	176	170	686	590	0	216	823	116 E
9/12/85	686	0	0	163	245	671	550	0	257	970	73 E
9/13/85	661	0	0	255	260	748	636	0	0	1370	58 E
9/14/85	695	0	0	267	267	776	645	2	0	1345	46 E
9/15/85	772	0	0	256	273	785	654	4	0	1336	0 E
9/16/85	826	0	0	289	333 E	791	762	6	0	1317	34 E
9/17/85	1080	0	0 E	295	457	753	918	10	80	774 E	64 E
9/18/85	1250	73	0	252	441	679	938	402	342	142	116 E
9/19/85	1370	53	0	198	306	663	863	218	497	181	100 E
9/20/85	1330	0	0	250	323	734	887	93	571	102	116 E
9/21/85	1210	0	0	295	346	756	855	2	633	747	116 E
9/22/85	1130	0	0 E	327	347	801	856	4	635	1147 E	113 E
9/23/85	1090	0	0 E	314	291 E	816	823	4	599	1193 E	58 E
9/24/85	941	0	0 E	293	257	851	816	3	220	1270 E	36 E
9/25/85	872	0	0	268	255	830	793	1	0	1229	77 E
9/26/85	888	0	0	293	254	845	791	1	0	1353	116 E
9/27/85	912	0	0 E	280	250	824	766	3	0	1206 E	109 E
9/28/85	833	0	0	260	245	695	474	6	0	944	58 E
9/29/85	899	0	0	224	246	713	642	8	0	946	58 E
9/30/85	1010	0	0	214	244	735	721	10	0	947	58 E
10/ 1/85	786	1	0 E	241	241	773	783	12	0	1091 E	58 E
10/ 2/85	755	2	0	238	232 E	748	744	12	0	945	85 E
10/ 3/85	735	2	0	202	110	744	728	10	0	945	140 E
10/ 4/85	734	2	0	144	0	771	734	8	0	945	151 E
10/ 5/85	745	2	0	128	0	815	771	8	0	943	96 E
10/ 6/85	748	2	0	96	0	841	803	8	0	944	0 E
10/ 7/85	810	2	0	135	0	830	830	10	0	949	99 E
10/ 8/85	820	2	0	183	118	797	793	8	0	942	151 E
10/ 9/85	791	2	0	227	201	762	759	8	0	946	151 E
10/10/85	755	2	0	203	219	752	739	8	0	942	75 E
10/11/85	641	2	0	225	318	613	366	8	0	677	87 E
10/12/85	519	2	0	254	420	526	354	5	0	751	58 E
10/13/85	612	2	0	259	395	626	629	5	0	726	95 E
10/14/85	627	2	0	233	324	594	674	5	0	487	151 E

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
10/15/85	619	1	0	185 E	283	576	680	6	0	487	151 E
10/16/85	558	0	105	166 E	253	528	477	3	0	374	151 E
10/17/85	477	0	172	167 E	243	486	393	0	0	351	151 E
10/18/85	487	0	187	166 E	247	490	394	0	0	377	151 E
10/19/85	498	0	192	151 E	265	493	412	0	0	385	124
10/20/85	760	0	184	105 E	288	583	612	0	0	371	0
10/21/85	780	0	61	38 E	201	709	708	0	0	856	55 E
10/22/85	787	0	0	0 E	153	738	744	0	0	630	100 E
10/23/85	759	0	0	101 E	140	716	711	0	0	821	151 E
10/24/85	760	0	0	177 E	136	770	733	0	0	961	151 E
10/25/85	751	0	0	180 E	136	781	754	0	0	957	151 E
10/26/85	748	0	0	173 E	154	779	745	0	0	956	56 E
10/27/85	791	0	0	160 E	184	786	771	0	0	954	0 E
10/28/85	804	0 P	0	113 E	166	801	782	0	0	953	85 E
10/29/85	785	0	0	153 E	226	727	761	0	0	780	151 E
10/30/85	744	0	108	182 E	264	602	676	0	0	401	151 E
10/31/85	637	0	188	173 E	259	521	414	0	0	378	151 E
11/ 1/85	574	0	192	175 E	266	493	368	0	0	384	151 E
11/ 2/85	561	0	196	177 E	259	485	365	0	0	391	151 E
11/ 3/85	525	0	198	176 E	253	475	361	0	0	393	151 E
11/ 4/85	534	0	195	59 E	190 E	526	376	0	0	389	86 E
11/ 5/85	510	0	192	0 E	133 E	565	386	0	0	385	65
11/ 6/85	484	0	195	78 E	49 E	563	384	0	0	389	82
11/ 7/85	460	0	194	74 E	0 E	555	388	0	0	387	82
11/ 8/85	429	0	193	28 E	0 E	559	387	0	0	385	82
11/ 9/85	412	0	195	28 E	0 E	555	385	0	0	388	82
11/10/85	391	0	192	25 E	0 E	556	390	0	0	384	10
11/11/85	374	0	194	25 E	0 E	555	391	0	0	388	0
11/12/85	299	0	77	11 E	0 E	247	235	0	0	207	43
11/13/85	512	0	0	0 E	0 E	0	0	0	0	248	82
11/14/85	959	0	100	27 E	0 E	0	0	0	0	279	82
11/15/85	1100	0	166	46 E	0 E	162	83	0	0	333	82
11/16/85	-5	0	155	46 E	0 E	18	81	0	0	360	82
11/17/85	-13	0	160	43 E	0 E	179	202	0	0	362	82
11/18/85	150	0	188	146 E	222 E	406	456	0	0	382	82
11/19/85	335	0	194	65 E	139 E	246	291 E	0	0	387	36 E
11/20/85	664	0	177	0 E	273	536	724 E	0	0	360	82 E
11/21/85	583	0	174	0 E	180	612	520	0	0	355	63 E
11/22/85	471	0	172	0 E	136	561	384	0	0	350	44 E
11/23/85	450	0	175	0 E	114	566	389	0	0	355	82
11/24/85	427	0	175	0 E	111	562	387	0	0	357	82
11/25/85	355	0	164	0 E	53 E	284	252	0	0	338	82
11/26/85	146	0	144	0 E	0	1	0	0	0	304	82
11/27/85	97	0	159	0 E	0	82	93	0	0	202	82
11/28/85	24	0	200	0 E	0	2	0	0	0	0	82
11/29/85	0	0	208	0 E	0	1	0	0	0	0	82
11/30/85	0	0	212	0 E	0	0	0	0	0	0	82
12/ 1/85	0	0	210	0 E	0	0	0	0	0	0	82

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
12/ 2/85	0	0	205	42 E	0	0	0	0	0	0	54 E
12/ 3/85	0	0	208	68 E	0	0	0	0	0	0	16 E
12/ 4/85	25	0	207	48 E	0	0	0	0	0	0	16 E
12/ 5/85	42	0	183	38 E	0	0	0	0	0	147	16 E
12/ 6/85	479	0	170	17 E	66	362	469	0	0	296	16 E
12/ 7/85	928	0	177	0 E	96	572	690	0	0	359	16 E
12/ 8/85	931	0	174	0 E	81	558	659	0	0	354	16 E
12/ 9/85	385	0	195	0 E	34	247	242	0	0	130	16 E
12/10/85	0	0	207	0 E	0	0	0	0	0	0	16 E
12/11/85	0	0	206	0 E	0	0	0	0	0	0	16 E
12/12/85	0	0	207	0 E	0	0	0	0	0	0	16 E
12/13/85	0	0	209	0 E	0	0	0	0	0	0	16 E
12/14/85	0	0	210	0 E	0	0	0	0	0	0	16 E
12/15/85	0	0	211	0 E	0	0	0	0	0	0	16 E
12/16/85	0	0	210	0 E	0	0	0	0	0	0	16 E
12/17/85	0	0	207	0 E	0	1	0	0	0	0	16 E
12/18/85	0	0	206	0	0	1	0	0	0	0	16 E
12/19/85	0	0	206	0	0	1	0	0	0	0	16 E
12/20/85	0	0	204	0	0	1	0	0	0	0	16 E
12/21/85	0	0	204	0	0	1	0	0	0	0	16 E
12/22/85	0	0	205	0	0	1	0	0	0	0	1 E
12/23/85	0	0	204	0	0	1	0	0	0	0	8 E
12/24/85	0	0	202	0	0	1	0	0	0	0	16 E
12/25/85	0	0	198	0	0	2	0	0	0	0	16 E
12/26/85	0	0	198	0	0	3	0	0	0	0	16 E
12/27/85	0	0	200	0	0	3	0	0	0	0	16 E
12/28/85	0	0	199	0	0	3	0	0	0	0	16 E
12/29/85	0	0	196	0	0	3	0	0	0	0	16 E
12/30/85	0	0	194	0	0	3	0	0	0	0	16 E
12/31/85	0	0	192	0	0	3	0	0	0	0	16 E
1/ 1/86	0	0	M	0	0	3	0	0	0	0	16 E
1/ 2/86	0	0	M	0	0	3	0	0	0	0	16 E
1/ 3/86	0	0	M	0	0	4	0	0	0	0	16 E
1/ 4/86	0	0	M	0	0	4	0	0	0	0	16 E
1/ 5/86	0	0	M	0	0	4	0	0	0	0	16 E
1/ 6/86	0	0	M	0	0	4	0	0	0	0	16 E
1/ 7/86	0	0	M	0	0	4	0	0	0	0	16 E
1/ 8/86	0	0	M	0	95	4	44	0	0	0	16 E
1/ 9/86	110	0	M	0	313	31	270	0	0	0	16 E
1/10/86	751	0	0 P	0	311	623	689	0	0	520	13 E
1/11/86	844	0	0 P	0	308	777	813	0	0	498 P	4 E
1/12/86	870	0	0	0	258	693	729	0	0	259	0
1/13/86	590	0	92	0	234	459	434	0	0	347	8
1/14/86	650	0	156	0	156	335	385	0	0	324	16
1/15/86	626	0	153	0	55	334	385	0	0	319	16
1/16/86	287	0	168	0 P	69	210 P	339	0	0	152	16
1/17/86	0	0	184	0	40	39	7 E	0	0	0	16
1/18/86	0	0	183	0	12	37	0	0	0	0	16

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
1/19/86	0	0	183	0	12	36	0	0	0	0	16
1/20/86	0	0	186	0	26	35	0	0	0	0	16
1/21/86	0	0	187	0	32	16	0	0	0	0	16
1/22/86	0	0	189	0	19	0	0	0	0	0	16
1/23/86	0	0	190	0	12	0	0	0	0	0	16
1/24/86	0	0	189	0	4	0	0	0	0	0	16
1/25/86	0	0	187	0	0	0	0	0	0	0	16
1/26/86	0	0	186	0	0	0	0	0	0	0	9
1/27/86	0	0	187	0	0	0	0	0	0	0	9
1/28/86	0	0	190	0	0	0	0	0	0	0	16
1/29/86	0	0	197	0	0	0	0	0	0	0	16
1/30/86	0	0	194	0	0	0	0	0	0	0	16
1/31/86	0	0	193	0	0	0	0	0	0	0	16
2/ 1/86	0	0	193	0	0	0	0	0	0	0	16
2/ 2/86	0	0	192	0	0	0	0	0	0	0	16
2/ 3/86	0	0	189	0	0	0	0	0	0	0	10
2/ 4/86	0	0	189	0	0	0	0	0	0	0	11
2/ 5/86	0	0	190	0	0	0	0	0	0	0	10
2/ 6/86	0	0	190	0	0	0	0	0	0	0	11
2/ 7/86	0	0	195	0	0	0	0	0	0	0	11
2/ 8/86	0	0	201	0	0	0	0	0	0	0	11
2/ 9/86	0	0	201	0	0	0	0	0	0	0	11
2/10/86	0	0	198	0	0	0	0	0	0	0	11
2/11/86	0	0	195	0	0	0	0	0	0	0	11
2/12/86	0	0	195	0	0	0	0	0	0	0	11
2/13/86	0	0	197	0	0	0	0	0	0	0	11
2/14/86	0	0	194	0	0	0	0	0	0	0	11
2/15/86	0	0	193	0	0	0	0	0	0	0	11
2/16/86	0	0	191	0	0	0	0	0	0	0	11
2/17/86	0	0	191	0	0	0	0	0	0	0	11
2/18/86	0	0	210	0	0	0	0	0	0	0	11
2/19/86	0	0	215	0	0	0	0	0	0	0	10
2/20/86	0	0	212	0	0	0	0 P	0	0	0	11
2/21/86	0	0	210	0	0	0	M	0	0	0	11
2/22/86	0	0	207	0	0	0	M	0	0	0	11
2/23/86	0	0	205	0	0	0	M	0	0	0	11
2/24/86	30	0	205	0	0	0	M	0	0	0	11
2/25/86	78	0	202	0	0	0	M	0	0	0	11
2/26/86	81	0	205	0	0	0	M	0	0	0	8
2/27/86	81	0	192	99	0	39	M	0	0	82	2
2/28/86	76	0	179	160	0	62	M	0	0	121	3
3/ 1/86	34	0	180	185	0	61	M	0	0	122	5
3/ 2/86	0	0	176	187	0	59	M	0	0	119	5
3/ 3/86	0	0	175	192	0	61	M	0	0	194	5
3/ 4/86	0	0	170	203	0	62	M	0	0	305	5
3/ 5/86	0	0	174	207	0	62	M	0	0	354	5
3/ 6/86	0	0	169	211	0	63	M	0	0	346	5
3/ 7/86	0	0	165	213	0	62	M	0	0	340	2

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/ 8/86	0	0	170	211	0	60	M	0	0	348	0
3/ 9/86	0	0	172	208	0	58	M	0	0	351	0
3/10/86	0	0	184	64	172	15	M	0	0	204	3
3/11/86	0	0	134	0	180	37	M	0	0	370	5
3/12/86	0	0	159	0	44	109	M	0	0	206	5
3/13/86	0	0	185	0	60	3	M	0	0	0	5
3/14/86	0	0	182	0	129	3	M	0	0	0	5
3/15/86	0	0	184	0	118	3	M	0	0	0	4
3/16/86	0	0	186	0	116	3	M	0	0	0	0
3/17/86	0	0	185	0	44	3	M	0	0	0	3
3/18/86	0	0	185	0	76	1	M	0	0	0	5
3/19/86	0	0	182	0	35	0	0 P	0	0	0	5
3/20/86	0	0	181	0	0	0	0	0	0	0	5
3/21/86	0	0	186	0	130	0	0	0	0	0	5
3/22/86	0	0	187	0	193	0	0	0	0	0	5
3/23/86	0	0	185	0	170	0	0	0	0	0	5
3/24/86	0	0	185	0	56	0	0	0	0	0	5
3/25/86	63	0	184	0	0	0	0	0	0	0	5
3/26/86	448	0	120	0	311	181	599	160	0	0	5
3/27/86	666	0	0	0	324	617	927	12	0	660	5
3/28/86	759	0	0	49	286	915	958	8	0	925	5
3/29/86	799	0	0	0	246	908	931	3	0	960	5
3/30/86	820	0	0	0	247	903	905	0	0	734	5
3/31/86	834	0	0	139	291	879	911	0	0	477	5
4/ 1/86	829	0	0	222	330	821	876	2	0	477	5
4/ 2/86	817	0	0	226	324	799	853	3	0	512	5
4/ 3/86	818	0	0	254	339	822	831	2	0	913	5
4/ 4/86	685	0	63	79	112	615	501	1	0	423	5
4/ 5/86	467	0	153	0	0	289 E	347	1	0	213	5
4/ 6/86	0	0	156	0	0	167 E	3	1	0	216	5
4/ 7/86	0	0	170	0	0	154 E	3	4	0	72	5
4/ 8/86	0	0	186	0	0	144 E	3	3	0	0	5
4/ 9/86	0	0	189	0	0	140 E	3	0	0	0	5
4/10/86	0	0	196	0	0	121 E	2	0	0	0	5
4/11/86	0	0	193	0	0	0 E	1	2	0	0	5
4/12/86	0	0	192	0	0	0 E	1	4	0	0	5
4/13/86	236	0	191	0	193	0 E	168	2	0	0	5
4/14/86	142	0	191	0	85	0 E	61	1	0	0	5
4/15/86	0	0	193	0	0	0 E	1	0	0	0	5
4/16/86	0	0	195	0	0	0 E	1	2	0	0	5
4/17/86	0	0	198	0	0	0 E	1	0	0	0	5
4/18/86	0	0	199	0	0	0 E	2	0	0	0	5
4/19/86	0	0	200	0	0	0 E	3	0	0	0	5
4/20/86	0	0	200	0	0	0 E	3	4	0	0	1
4/21/86	0	0	200	0	0	0 E	3	3	0	0	3
4/22/86	0	0	203	0	0	0 E	2	2	0	0	5 E
4/23/86	0	0	205	0	0	0	1	1	0	0	5 E
4/24/86	0	0	204	0	0	0	0	0	0	0	5 E

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
4/25/86	0	0	184	54	0	0	0	0	0	212	5 E
4/26/86	0	0	169	122	0	0	0	0	0	346	5 E
4/27/86	0	0	169	122	0	0	0	0	0	346	5 E
4/28/86	0	0	168	109	0	245	0	0	0	344	5 E
4/29/86	0	0	178	91	0	312	0	0	0	361	5 E
4/30/86	0	0	178	87	0	366	0	0	0	362	5 E
5/ 1/86	0	0	178	80	0	419	0	0	0	361	5 E
5/ 2/86	0	0	176	78	0	414	0	0	0	358	5 E
5/ 3/86	0	0	176	79	0	404	0	0	0	358	3 E
5/ 4/86	0	0	179	77	0	398	0	0	0	362	0 E
5/ 5/86	0	0	177	76	0	407	0	0	0	360	3 E
5/ 6/86	0	0	173	76	0	399	0	0	0	353	7 E
5/ 7/86	0	0	169	74	0	394	0	0	0	346	5 E
5/ 8/86	0	0	168	71	0	399	0	0	0	343	5 E
5/ 9/86	0	0	161	74	0	418	0	0	0	332	5 E
5/10/86	0	0	166	74	0	408	0	0	0	341	5 E
5/11/86	0	0	168	73	0	411	0	0	0	343	5 E
5/12/86	0	0	161	72	0	398	0	0	0	333	5 E
5/13/86	0	0	166	72	0	385	0	0	0	340	5 E
5/14/86	0	0	166	74	0	382	0	0	0	341	5 E
5/15/86	0	0	163	77	0	392	0	0	0	336	5 E
5/16/86	0	0	162	77	0	395	0	0	0	334	5 E
5/17/86	0	0	167	75	0	387	0	0	0	342	5 E
5/18/86	0	0	176	73	0	370	0	0	0	357	5 E
5/19/86	0	0	172	43	0	378	0	0	0	351	5 E
5/20/86	0	0	161	0	0	363	0	0	0	332	5 E
5/21/86	0	0 E	151	14	0	353	0	0	0	316	5 E
5/22/86	0	0	123	38	0	528	147	0	0	274	4 E
5/23/86	0	0	125	23	0	567	305	0	0	236	3
5/24/86	0	0	132	0	0	503	294	0	0	188	5
5/25/86	0	0	138	0	0	473	276	0	0	195	5
5/26/86	0	0	152	0	0	453	261	0	0	212	5
5/27/86	0	0	151	15	0	443	248	0	0	260	5
5/28/86	0	0	154	30	0	453	244	0	0	321	5
5/29/86	0	0	156	27	0	425	153	0	0	324	5
5/30/86	0	0	158	30	0	358	2	0	0	327	5
5/31/86	0	0	166	30	0	344	2	0	0	340	5
6/ 1/86	0	0	170	29	0	346	2	0	0	348	5
6/ 2/86	0	0	166	30	0	352	2	0	0	341	5
6/ 3/86	0	0	163	32	0	367	2	0	0	337	5
6/ 4/86	0	0	159	90	0	334	2	0	0	329	81
6/ 5/86	0	0	157	119	0	326	3	0	0	326	145
6/ 6/86	0	0	153	113	0	314	4	0	0	319	145
6/ 7/86	0	0	92	3	108	270	198	0	0	193	59
6/ 8/86	163	0	0	-21	101	281	159	0	0	0	74
6/ 9/86	292	0	0	-46	0	362	360	0	0	0	94
6/10/86	92	0	110	50	0	301	4	0	0	0	145
6/11/86	0	0	163	61	0	276	4	0	0	0	145

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
6/12/86	0	0	160	57	0	267	4	0	0	0	145
6/13/86	71	0	148	10	0	350	142	0	0	0	92
6/14/86	588	0	140	-86	0	521	551	0	0	0	0
6/15/86	139	0	148	-19	0	372	157	0	0	0	34
6/16/86	347	0	153	14	0	434	323	0	0	0	145
6/17/86	707	0	157	-31	0	497	558	0	0	0	145
6/18/86	523	0	168	7	0	457	371	0	0	0	145
6/19/86	31	0	162	55	0	338	68	0	0	0	145
6/20/86	832	0	125	70	162	652	843	0 E	0	406	145
6/21/86	850	0	60	133	263	718	982	0	0	890	94
6/22/86	846	0	0	94	272	787	1114	0	0	957	38
6/23/86	1030	0	0	154	380	767	1173	0	245	735	64
6/24/86	1250	0	0	260	514	706	1163	0	697	722	145
6/25/86	1130	0	0	321	492	775	1096	0	692	1235	94 E
6/26/86	761	0	0 E	339	531	713	639	0	191	1065 E	56 E
6/27/86	826	0	0 E	289	565	738	936	0	0	938 E	5 E
6/28/86	967	0	0 E	277	514	780	1003	0	0	940 E	0 E
6/29/86	992	0	0 E	287	493	781	982	0	0	937 E	0 E
6/30/86	986	0	0 E	297	445	769	955	0	0	942 E	93 E
7/ 1/86	1100	0	0	296	437	763	904	0	0	944	120 E
7/ 2/86	1110	0	0	281	422	759	881	0	0	923	92 E
7/ 3/86	959	0	0	311	428	606	364	0	0	940	145
7/ 4/86	944	0	0	311	442	611	551	0 E	0	953	144 E
7/ 5/86	930	0	0	299	446	617	547	0 E	0	958	145
7/ 6/86	926	0	0	301	457	607	550	0 E	0	957	145
7/ 7/86	916	0 E	0	293	456	604	550	0	0	963	145
7/ 8/86	906	0 E	0	286	445	614	542 E	0	0 E	958	145
7/ 9/86	879	0 E	0	248	472	641	556	0 E	0	962	145
7/10/86	902	0	0	263	491 E	640	579	0	0	964 E	145
7/11/86	892	0	0	271	454	628	564	0	0	962 E	145
7/12/86	898	0	0	272	434	616	546	0	0	962 E	145
7/13/86	883	0	0	270	420	608	504	0	0	961 E	145
7/14/86	760	0	0	286	436	541	346	0	0	1000 E	145
7/15/86	810	0	0	271	408	582	474	0	0	959 E	145
7/16/86	763	0	0	268	402	560	377	0	0	957 E	145
7/17/86	793	0	84	94	170	458	11	0	0	224 E	145
7/18/86	866	0	143	3	0	426	200	0	0	302	145
7/19/86	482	0	154	2	0	334	245	0	0	320	145
7/20/86	522	0	164	2	0	255	171	0	0	338	145
7/21/86	740	0	150	2	0	366	47	0	0	314	145
7/22/86	398	0	149	1	0	358	145	0	0	312	145
7/23/86	405	0	153	1	0	551	362	0	0	320	102
7/24/86	634	0	81 P	55	266	646	699	0	0	728 P	35
7/25/86	527	0	76	88	178	613	483	0	0	570	101
7/26/86	478	0	146	2	0	656	581	0	0	336	6
7/27/86	488	0	156	0	0	635	566	0	0	370	0
7/28/86	669	0	65 E	130	309	687	798	0	0	996 E	101
7/29/86	764	0	0 E	256	434	738	858	0	0	1269 E	145

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/30/86	681	0	0	244	377	707	801	0	0	1102 E	145
7/31/86	663	0	0	235	369	693	763	0	0	1066 E	89
8/ 1/86	649	0	0	219	358	680	722	0	0	1007	58
8/ 2/86	647	0	0	216	343	668	706	0	0	963	58
8/ 3/86	637	0	0	206	326	654	688	0	0	965	58
8/ 4/86	674	0	0	187	405	694	787	0	0	928	58
8/ 5/86	820	0	0	195	453	727	856	0	0	958	58
8/ 6/86	821	0	0	208	392	690	778	0	0	960	58 E
8/ 7/86	818	0	0	199	357	668	745	0	0	921	44
8/ 8/86	784	0	35	169	311	579	680	0	0	700	58
8/ 9/86	377	0	178	5	0	3	9	0	0	0	58
8/10/86	192	0	190	6	0	3	10	0	0	0	58
8/11/86	435	0	59	182	283	466	530	0	0	893	58
8/12/86	686	0	0	259	365	701	753	0	0	1099	58
8/13/86	698	0	0	229	341	677	718	0	0	975 E	56
8/14/86	707	0	0	223	341	665	704	0	0	968 E	40
8/15/86	710	0	0	219	338	654	705	0	0	940	28
8/16/86	772	0	0 E	194	332	672	734	0	0	1051 E	0
8/17/86	1000	0	0 E	244	421	782	872	0	0	1384 E	0
8/18/86	1110	0	0	273	420	812	870	0	0	1096	34
8/19/86	1200	0	0	264	395	799	891	0	359	978	28
8/20/86	1160	0	0	261	390	790	896	0	801	962	32
8/21/86	1080	0	0	264	369	773	874	0	752	964	38
8/22/86	1040	0	0	258	360	766	886	0	763	964	43
8/23/86	975	0	0	261	342	751	874	0	732	964	58
8/24/86	911	0	0	244	353	744	838	0	717	978 E	19
8/25/86	865	0	0 E	267	341	761	831	0	713	1238 E	40
8/26/86	834	0	0 E	264	326	759	839	0	715	1071 E	52
8/27/86	752	0	0	241	311	730	828	0	737	978 E	50
8/28/86	680	0	0	232	306	721	807	0	736	969	40
8/29/86	640	0	0	231	281	710	791	0	723	987 E	58
8/30/86	647	0	0	220	289	699	779	0	649	967	52
8/31/86	741	0	0	200	333	705	796	0	608	965	0
9/ 1/86	703	0	0	215	328	697	794	0	642	968	0
9/ 2/86	347	0	0	89	108	676	302	0	230	944	29
9/ 3/86	99	0	0	129	0	507	4	0	0	900	82 E
9/ 4/86	412	0	0	37	0	603	411	0	0	895	90 E
9/ 5/86	830	0	0	30	178	732	786	0	0	943	79 E
9/ 6/86	843	0	0	120	233	705	650	0	0	946	116
9/ 7/86	871	0	0	183	234	722	663	0	0	948	116
9/ 8/86	1110	0	0	232	462	797	866	0	247	961 E	116
9/ 9/86	1230	0	0	270	475	805	952	0	639	950	114 E
9/10/86	1150	0	0	267	409	780	918	0	628	954	97 E
9/11/86	1070	0	0	271	370	748	885	0	639	955	116
9/12/86	891	0	0	264	344	731	823	0	277	956	116
9/13/86	869	0	0	263	319	712	766	0	0	957	116
9/14/86	879	0	0	260	307	704	779	0	0	957	116
9/15/86	886	0	0	250	291	689	755	0	0	931	116

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
9/16/86	739	0	0	253	302	609	423	0	0	910	116
9/17/86	733	0	0	244	330	594	459	0	0	860	116
9/18/86	773	0	0	238	327	594	495	0	0	851	116
9/19/86	621	0	74	100	102	223	174	0	0	327	116
9/20/86	405	0	169	6	0	1	1	0	0	115	116
9/21/86	348	0	174	5	0	262	2	0	0	118	116
9/22/86	519	0	179	3	0	478	362	0	0	207	116
9/23/86	634	0	172	2	0	496	352	0	0	287	116
9/24/86	720	0	164	2	0	602	515	0	0	338	116
9/25/86	710	0	166	2	0	522	410	0	0	340	116
9/26/86	523	0	155	1	0	471	265	0	0	323	100
9/27/86	484	0	161	1	0	432	129	0	0	333	116
9/28/86	428	0	164	1	0	438	204	0	0	338	116
9/29/86	600	0	168	1	0	360	2	0	0	374	116
9/30/86	1120	0	180	1	0	385	2	0	0	416	53 E
10/ 1/86	914	0	170	1	0	444	199	0	0	366	84 E
10/ 2/86	-27	0	165	1	0	366	2	0	0	266	116
10/ 3/86	161	0	166	1	0	429	0	0	0	260	130 E
10/ 4/86	130	0	165	0	0	373	127	0	0	340	151
10/ 5/86	245	0	159	0	0	195	2	0	0	329	151
10/ 6/86	30	0	181	0	0	184	1	0	0	102	151
10/ 7/86	0	0 P	184	0	0	171	0	0	0	0	151
10/ 8/86	0	M	181	0	0	170	0	0	0	0	151
10/ 9/86	0	M	181	0	0	92	0	0	0 P	0	151
10/10/86	0	M	174	0	0	0	0	0	M	0	151 E
10/11/86	0	M	175	0	0	0	0	0	M	0	53
10/12/86	0	M	176	0	0	0	0	0	M	0	0
10/13/86	0	M	176	0	0	0	0	0	M	0	95 E
10/14/86	0	M	178	0	0	0	0	0	M	0	151
10/15/86	0	0 P	182	0	0	1	0	0	M	0	134 E
10/16/86	0	0	175	0	42	1	0	0	M	0	92 E
10/17/86	124	0	178	0	45	95	140	0	M	0	151
10/18/86	202	0	183	0	0	96	0	0	M	0	151
10/19/86	189	0	183	0	0	93	0	0	M	0	104 E
10/20/86	177	0	184	0	0	88	0	0	M	0	76 E
10/21/86	160	0	195	0	0	89	0	0	M	0	151
10/22/86	147	0	215	0	0	47	0	0	M	0	151 E
10/23/86	52	0	210	0	0	3	0	0	M	0	151
10/24/86	0	0	210	0	0	1	0	0	M	0	151
10/25/86	0	0	210	0	0	0	0	0	M	0	151
10/26/86	0	0	211	0	0	0	0	0	M	0	142
10/27/86	0	0	211	0	0	0	0	0	M	0	88
10/28/86	0	0	212	0	0	0	0	0	M	0	123
10/29/86	0	0	175	0	0	170	34	0	M	220	8 E
10/30/86	0	0	164	0	0	302	296	0	M	338	87 E
10/31/86	0	0	152	0	0	168	91	0	M	318	151 E
11/ 1/86	209	0	156	0	0	99	73	0	M	324	151 E
11/ 2/86	160	0	149	0	0	60	1	0	M	313	106 E

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
11/ 3/86	62	0	164	0	0	29	1	0	M	120	96 E
11/ 4/86	0	0	189	0	0	0	1	0	M	0	70 E
11/ 5/86	0	0	193	0	0	0	1	0	M	0	65 E
11/ 6/86	0	0	194	0	0	0	1	0	M	0	74
11/ 7/86	0	0	199	0	0	0	1	0	M	0	45
11/ 8/86	0	0	204	0	0	0	1	0	M	0	0
11/ 9/86	0	0	205	0	0	0	1	0	M	0	0
11/10/86	0	0	198	0	0	0	1	0	M	83	44
11/11/86	0	0	188	0	0	0	0	0	M	126	74
11/12/86	0	0	181	18	0	37	0	0	M	160	74
11/13/86	0	0	171	42	0	82	0	0	0 P	230	74
11/14/86	0	0	176	45	0	76	0	0	0	233	74
11/15/86	0	0	182	43	0	80	0	0	0	237	74
11/16/86	0	0	186	41	0	82	0	0	0	238	7
11/17/86	96	0	180	40	0	152	58	0	0	296	44
11/18/86	155	0	184	39	0	211	114	0	0	344	74
11/19/86	151	0	183	38	0	202	112	0	0	346	40
11/20/86	147	0	182	25	0	220	122	0	0	345	39
11/21/86	151	0	182	5	0	247	140	0	0	347	74
11/22/86	204	0	178	5	0	357	244	0	0	359	74
11/23/86	439	0	174	4	0	650	526	0	0	393	74
11/24/86	336	0	196	4	0	358	294	0	0	375	74
11/25/86	118	0	190	4	0	293	220	0	0	355	74
11/26/86	267	0	190	4	0	305	315	0	0	359	73 E
11/27/86	151	0	184	4	0	175	108	0	0	344	74
11/28/86	123	0	182	3	0	150	4	0	0	337	74
11/29/86	584	0	84	3	0	642	578	0	0	752	74
11/30/86	816	0	0	2	0	731	743	0	269	487	74
12/ 1/86	510	0	101	1	0	658	511	0	217	383	45
12/ 2/86	484	0	168	1	39	634	541	0	0	331	16
12/ 3/86	291	0	183	1	27	247	244	0	0 P	125	16
12/ 4/86	0	0	177	1	0	0	0	0	M	0	16 E
12/ 5/86	0	0	170	1	0	0	0	0	M	0	16
12/ 6/86	0	0	175	2	0	0	1	0	M	0	16
12/ 7/86	89	0	172	2	0	114	144	0	M	0	16
12/ 8/86	0	0	182	3	0	83	1	0	M	14 E	15 E
12/ 9/86	0	0	199	3	0	78	0	0	M	0	11 E
12/10/86	0	0	199	4	0	75	0	0	M	0	14 E
12/11/86	0	0	195	2	0	75	0	0	M	0	16
12/12/86	0	0	208	0	0	76	0	0	M	0	16
12/13/86	0	0	210	0	0	78	0	0	M	0	13 E
12/14/86	0	0	208	0	0	78	0	0	M	0	11 E
12/15/86	0	0	203	0	0	27	0	0	M	59	11 E
12/16/86	0	0	192	0	0	53	0	0	M	128	13 E
12/17/86	0	0	192	0	0	88	0	0	M	128	16
12/18/86	0	0	197	0	0	87	0	0	M	131	16
12/19/86	0	0	197	0	0	88	0	0	M	131	9 E
12/20/86	0	0	198	0	0	88	1	0	M	131	0 E

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
12/21/86	0	0	196	0	0	87	1	0	M	130	0 E
12/22/86	0	0	194	0	0	83	1	0	M	129	10 E
12/23/86	0	0	187	0	0	5	1	0	M	125	16
12/24/86	166	0	180	0	154	14	129	0	M	122	16
12/25/86	74	0	155	0	227	0	45	0	M	107	16 E
12/26/86	384	0	65	0	201	262	384	0	M	45	11 E
12/27/86	314	0	0	0	184	292	333	0	M	0	11 E
12/28/86	127	0	0	0	160	9	1	0	M	0	11 E
12/29/86	182	0	0	0	55	8	1	0	M	0	14 E
12/30/86	172	0	0	0	0	7	1	0	M	0	16
12/31/86	148	0	13	0	75	6	3	0	M	72 E	16
1/ 1/87	796	0	167	0	332	629	804	0	M	122 E	8 E
1/ 2/87	848	0	56	0	208	798	883	0	M	803 E	7 E
1/ 3/87	836	0	0	0	143	838	870	0	M	927	16
1/ 4/87	806	0	0	0	191	797	835	0	M	790	8 E
1/ 5/87	868	0	0	0	209	813	879	0	M	788	9 E
1/ 6/87	821	0	0	0	111	796	847	0	M	789	16
1/ 7/87	403	0	58	0	37	358	342	0	M	279	16
1/ 8/87	0	0	128	0	0	73	1	0	0 P	0	16
1/ 9/87	0	0	140	0	17	69	76	0	0 E	0	16
1/10/87	66	0	141	0	33	74	181	0	0 E	0	16
1/11/87	178	0	149	0	32	73	101	0	0 E	0	16
1/12/87	60	0	151	0	11	65	0	0	0 E	0	16 E
1/13/87	37	0	162	0	0	61	0	0	0 E	0	16
1/14/87	0	0	165	0	0	35	0	0	0 P	0	16
1/15/87	0	0	157	0	0	3	0	0	0 E	34	16 E
1/16/87	0	0	142	0	0	2	0	0	0 P	100	16
1/17/87	0	0	146	0	0	1	0	0	M	103	16
1/18/87	0	0	145	0	0	1	0	0	M	102	16
1/19/87	0	0	143	0	0	0	0	0	M	101	16
1/20/87	0	0	145	0	0	0	0	0	M	102	16
1/21/87	0	0	149	0	0	0	0	0	0 P	104	16
1/22/87	0	0	149	0	0	0	0	0	0	104	7 E
1/23/87	2	0	160	0	0	0	0	0	0	147	9 E
1/24/87	24	0	166	0	0	0	0	0	0	228	16
1/25/87	24	0	174	0	0	0	0	0	0	236	16
1/26/87	24	0	166	0	0	40	0	0	0	227	16
1/27/87	24	0	158	0	0	82	0	0	0	219	16 E
1/28/87	14	0	165	0	0	79	0	0	0	227	16
1/29/87	0	0	162	0	0	77	0	0	0	222	16
1/30/87	0	0	160	0	0	74	0	0	0	221	16 E
1/31/87	0	0	161	0	0	72	0	0	0	221	8 E
2/ 1/87	0	0	160	0	0	70	0	0	0	221	0 E
2/ 2/87	0	0	158	0	0	68	0	0	0	218	7
2/ 3/87	0	0	151	0	0	38	0	0	0	210	11
2/ 4/87	0	0	144	0	0	40	0	0	0	134	6
2/ 5/87	0	0	170	0	0	36	0	0	0	0	4
2/ 6/87	0	0	176	0	0	0	0	0	0	0	11

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
2/ 7/87	0	0	181	0	0	0	0	0	0	0	11
2/ 8/87	0	0	182	0	0	0	0	0	0	0	11
2/ 9/87	0	0	171	0	0	42	0	0	0	194	11
2/10/87	0	0	163	0	0	80	0	0	0	337	11
2/11/87	0	0	160	0	0	80	0	0	0	331	11
2/12/87	0	0	156	0 E	0	83	0	0	0	324	11
2/13/87	0	0	155	0 E	0	86	0	0	0	323	11
2/14/87	0	0	167	0 E	0	83	0	0	0	343	11
2/15/87	0	0	171	0 E	0	83	0	0	0	350	11
2/16/87	0	0	168	0 E	0	80	0	0	0	344	11
2/17/87	0	0	166	0 E	0	84	0	0	0	341	11
2/18/87	0	0	160	0 E	0	85	0	0	0	331	11
2/19/87	0	0	156	0 E	0	85	0	0	0	324	11
2/20/87	0	0	153	0 E	0	86	4	0	0	319	11
2/21/87	0	0	166	0 E	0	83	1	0	0	341	11
2/22/87	0	0	172	0 E	0	82	0	0	0	351	11
2/23/87	46	0	167	0 E	0	117	28	0	0	342	11
2/24/87	74	0	168	0 E	0	149	59	0	0	344	11
2/25/87	83	0	171	0 E	0	149	57	0	0	349	11
2/26/87	87	0	169	0 E	0	146	55	0	0	347	11
2/27/87	83	0	169	0	0	146	55	0	0	347	11
2/28/87	76	0	170	0	0	144	54	0	0	348	11
3/ 1/87	0	0	171	0	0	142	52	0	0	349	11
3/ 2/87	0	0	174	0	0	146	50	0	0	355	8
3/ 3/87	0	0	167	0	0	95	35	0	0	343	5
3/ 4/87	0	0	164	0	0	0	0	0	0	297	5
3/ 5/87	0	0	173	0	0	0	0	0	0	87	5
3/ 6/87	0	0	174	0	0	0	0	0	0	0	5
3/ 7/87	714	0	66	0	326	557	686	0	0	563	5
3/ 8/87	858	0	0	0	278	837	910	0	0	873	3
3/ 9/87	755	0	0	0	201	775	838	0	0	636	3
3/10/87	337	0	99	0	73	292	340	0	0	214	5
3/11/87	0	0	179	0	0	0	0	0 P	0	1	5
3/12/87	0	0	182	0	0	0	0	M	0 P	0	5
3/13/87	0	0	178	0	0	0	0	M	M	0	5
3/14/87	0	0	162	0	0	0	0	M	M	0	3
3/15/87	0	0	163	0	0	0	0	M	M	0	0
3/16/87	0	0	163	0	0	0	0	M	M	0	3
3/17/87	0	0	165	0	0	0	0	M	M	0	5
3/18/87	0	0	157	0	0	0	0	M	M	49	5
3/19/87	0	0	134	0	0	35	0	M	M	153	5
3/20/87	0	0	131	0	0	80	0	M	M	248	5
3/21/87	0	0	140	0	0	80	0	M	M	297	5
3/22/87	0	0	146	0	0	79	0	M	M	306	5
3/23/87	0	0	134	0	0	38	0	M	M	254	4
3/24/87	0	0	52	0	168	3	146	M	M	64	5
3/25/87	23	0	0	0	206	3	177	M	M	0	5
3/26/87	44	0	0	0	79	3	66	M	M	0	5

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/27/87	40	0	0	0	0	2	0	M	M	0	5
3/28/87	39	0	0	0	0	1	0	M	M	0	5
3/29/87	38	0	0	0	0	1	0	M	M	0	5
3/30/87	37	0	0	0	0	1	0	M	M	0	5
3/31/87	38	0	109	0	0	1	0	M	M	0	5
4/ 1/87	19	0	204	0	0	0	0	M	M	0	5
4/ 2/87	0	0	198	0	0	1	0	M	M	0	5
4/ 3/87	0	0	194	0	0	0	0	M	M	0	5
4/ 4/87	0	0	197	0	0	0	0	M	M	0	5
4/ 5/87	0	0	196	0	0	0	0	M	M	0	5
4/ 6/87	0	0	193	0	0	0	0	M	M	47	5
4/ 7/87	0	0	173	0	0	38	0	M	M	170	5
4/ 8/87	0	0	170	0	0	82	0	M	M	185	5
4/ 9/87	0	0	187	0	0	79	0	M	M	125	5
4/10/87	0	0	189	0	0	80	0	M	M	126	5
4/11/87	0	0	194	0	0	80	0	M	M	129	5
4/12/87	0	0	195	0	0	79	0	M	M	129	5
4/13/87	0	0	190	0	0	81	0	M	M	183	5
4/14/87	0	0	177	2	0	80	0	M	M	240	5
4/15/87	0	0	174 E	3	0	75	0	M	M	236 E	5
4/16/87	0	0	176 E	3	0	76	0	M	O P	238 E	5
4/17/87	0	0	181 E	2	0	78	0	M	0	244 E	5
4/18/87	0	0	184	2	0	78	0	M	0	247	5
4/19/87	0	0	186	1	0	80	0	M	0	250	5
4/20/87	0	0	184	0	0	95	0	M	0	300	5
4/21/87	0	0	185	0	0	130	0	M	0	372	5
4/22/87	0	0	180	0	0	138	0	M	0	365	5
4/23/87	0	0	182	0	0	138	0	M	0	368	5
4/24/87	0	0	182	0	0	139	0	M	0	367	4
4/25/87	0	0	184	0	0	139	0	M	0	370	0
4/26/87	0	0	184	0	0	139	0	M	0	371	0
4/27/87	0	0	190	0	0	156	0	M	0	381	1
4/28/87	22	0	199	0	0	195	22	M	0	395	3
4/29/87	34	0	198	0	0	218	40	M	0	395	5
4/30/87	9	0	70	0	0	278	90	M	0	904	5
5/ 1/87	0	0	0	45	0	421	196	M	0	1315	5
5/ 2/87	0	0	0	74	0	430	224	M	0	1259	5
5/ 3/87	0	0	0	73	0	426	225	M	0	1257	5
5/ 4/87	0	0	0	71	0	417	224	M	0	1213	5
5/ 5/87	0	0	0	70	0	415	224	M	0	1203	5
5/ 6/87	0	0	0 E	53	0	306	166 E	M	0	889 E	5
5/ 7/87	0	0	0 E	68	0	415	227	M	0	1197 E	5
5/ 8/87	0	0	88	50	0	420	91	M	0	307	4
5/ 9/87	0	0	144	37	0	368	0	M	0	0	0
5/10/87	0	0	135	21	0	392	0	M	0	0	0
5/11/87	0	0	170	19	0	388	0	M	0	0	3
5/12/87	0	0	181	22	0	353	0	M	0	0	5
5/13/87	499	0	169	15	77	334	298	O P	0	0	3

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
5/14/87	1020	0	165	31	236	431	579	0	0	0	6
5/15/87	651	0	166	34	70	383	162	0	0	0	11
5/16/87	245	0	149	12	0	351	43	0	0	0	11
5/17/87	0	0	147	15	0	345	40	0	0	0	11
5/18/87	0	0	145	24	0	150	36	0	0	0	11
5/19/87	0	0	135	33	0	1	13	0	0	0	11
5/20/87	0	0	132	36	0	0	0	0	0	0	11
5/21/87	0	0	135	38	0	0	0	0	0	0	11
5/22/87	0	0	138	40	0	0	0	0	0	0	11
5/23/87	0	0	139	41	0	0	0	0	0	0	11
5/24/87	0	0	139	42	0	0	0	0	0	0	11
5/25/87	0	0	144	43	0	0	0	0	0	0	11
5/26/87	0	0	144	41	0	0	0	0	0	0	7
5/27/87	0	0	147	43	0	0	0	0	0	0	11
5/28/87	0	0	152	44	0	0	0	0	0	0	11
5/29/87	0	0	155	44	0	0	0	0	0	0	11
5/30/87	0	0	154	43	0	0	0	0	0	0	11
5/31/87	0	0	151	44	0	0	0	0	0	0	11
6/ 1/87	0	0	152	43	0	0	0	0	0	0	11
6/ 2/87	0	0	161	61	0	0	0	0	0	117	11
6/ 3/87	0	0	142	90	0	0	0	0	0	300	83
6/ 4/87	0	0	137	97	0	0	0	0	0	292	140
6/ 5/87	0	0	138	97	0	0	0	0	0	293	140
6/ 6/87	0	0	148	97	0	0	0	0	0	311	140
6/ 7/87	0	0	157	100	0	0	0	0	0	326	140
6/ 8/87	0	0	144	103	0	0	0	0	0	303	140 E
6/ 9/87	0	0	139	98	0	0	0	0	0	295	77 E
6/10/87	0	0	141	104	0	0	0	0	0	299	140
6/11/87	0	0	151	99	0	84	37	0	0	315	140
6/12/87	0	0	161	95	0	139	68	0	0	333	140
6/13/87	0	0	162	93	0	134	68	0	0	334	140
6/14/87	0	0	167	92	0	132	67	0	0	342	140
6/15/87	0	0	175	94	0	135	68	0	0	355	140
6/16/87	0	0	180	92	0	141	67 E	0	0	364	140
6/17/87	0	0	182	89	0	142	68 E	0	0	367	140
6/18/87	0	0	180	88	0	141	69 E	0	0	365	140
6/19/87	0	0	181	85	0	139	68 E	0	0	366	126 E
6/20/87	0	0	180	79	0	137	69 E	0	0	364	43
6/21/87	0	0	178	79	0	138	70 E	0	0	361	24
6/22/87	0	0	178	80	0	142	154 E	0	0	361	32
6/23/87	0	0	67 E	88	0	302	216 E	0	0	1053 E	82 E
6/24/87	0	0	0 E	97	0	422	226 E	0	0	1177 E	140
6/25/87	0	0	0	55	0	255	138 E	0	0	534	113
6/26/87	60	0	105	35	0	0	0 E	0	0	0	19
6/27/87	246	0	148	64	0	233	223 E	0	0	55	16
6/28/87	1100	0	59	36	0	888	1015 E	0	0	722	83
6/29/87	948	0	0	51	378	900	1072 E	0	0	944	32
6/30/87	901	0	0	123	435	824	880 E	0	0	739	76

Table D.4 Average Daily Flow Rates (cfs), Various Water Control Structures,
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-173	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/ 1/87	459	0	0	55	112	719	454 E	0	0	741	139
7/ 2/87	526	0	0	28	0	695	514 E	0	0	590	140
7/ 3/87	338	0	0	47	0	600	297 E	0	0	487	140
7/ 4/87	174	0	0	48	0	581	306 E	0	0	407	135
7/ 5/87	164	0	0	26	0	502	188 E	0	0	232	0
7/ 6/87	49	0	96	41	0	143	0 E	0	0	0	89
7/ 7/87	0	0	135	58 E	0	0	0 E	0	0	0	140
7/ 8/87	0	0	138	93 E	0	0	0 E	0	0	0	140
7/ 9/87	0	0	138	104 E	0	0	0 E	0	0 E	0	140
7/10/87	0	0	140	97 E	0	0	0 E	0	0	0	140
7/11/87	0	0	142	88 E	0	0	0 E	0	0	0	140

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
7/11/85	6.33	6.11	5.31	M	M	6.44	6.22	6.08	M	6.53
7/12/85	6.33	6.10	5.31	M	M	6.43	6.23	6.08	M	6.52
7/13/85	6.33	6.10	5.31	M	M	6.42	6.22	6.07	M	6.51
7/14/85	6.34	6.14	5.40	M	M	6.41	6.22	6.06	M	6.55
7/15/85	6.38	6.14	5.31	M	M	6.40	6.30	6.19	M	6.58
7/16/85	6.44	6.14	5.29	M	M	6.48	6.40	6.25	M	6.58
7/17/85	6.45	6.17	5.62	M	M	6.50	6.43	6.28	M	6.61
7/18/85	6.43	6.16	5.43	M	M	6.49	6.41	6.26	M	6.61
7/19/85	6.41	6.18	5.51	M	M	6.48	6.41	6.28	M	6.60
7/20/85	6.42	6.26	5.58	M	M	6.50	6.53	6.40	M	6.59
7/21/85	6.45	6.29	5.35	M	M	6.52	6.61	6.48	M	6.79
7/22/85	6.46	6.28	5.30	M	M	6.54	6.64	6.51	M	6.76
7/23/85	6.58	6.37	5.87	M	M	6.70	6.82	6.70	M	6.74
7/24/85	6.69	6.49	6.36	6.45	6.53	6.72	6.96	6.81	M	6.76
7/25/85	6.67	6.48	6.39	6.44	6.53	6.75	6.92	6.77	M	6.79
7/26/85	6.64	6.47	6.36	6.42	6.50	6.70	6.87	6.73	M	6.79
7/27/85	6.62	6.45	6.33	6.40	6.48	6.65	6.83	6.68	M	6.79
7/28/85	6.59	6.43	6.30	6.37	6.45	6.60	6.77	6.61	M	6.79
7/29/85	6.56	6.41	6.25	6.34	6.42	6.58	6.68	6.54	M	6.80
7/30/85	6.54	6.39	6.23	6.32	6.40	6.55	6.61	6.47	M	6.80
7/31/85	6.53	6.41	6.23	6.31	6.39	6.53	6.56	6.42	M	6.80
8/ 1/85	6.52	6.44	6.28	6.29	6.37	6.50	6.52	6.38	M	6.81
8/ 2/85	6.52	6.43	6.31	6.29	6.36	6.48	6.48	6.35	M	6.82
8/ 3/85	6.54	6.43	6.32	6.30	6.37	6.45	6.45	6.31	M	6.82
8/ 4/85	6.53	6.43	6.32	6.29	6.35	6.43	6.43	6.29	M	6.85
8/ 5/85	6.51	6.42	6.30	6.27	6.33	6.40	6.41	6.28	M	6.88
8/ 6/85	6.49	6.42	6.31	6.26	6.33	6.35	6.43	6.30	M	6.88
8/ 7/85	6.50	6.46	6.36	6.28	6.34	6.38	6.52	6.44	M	6.88
8/ 8/85	6.55	6.47	6.43	6.31	6.38	6.40	6.65	6.52	M	6.88
8/ 9/85	6.55	6.47	6.46	6.31	6.36	6.43	6.66	6.54	M	6.89
8/10/85	6.55	6.49	6.49	6.30	6.35	6.45	6.68	6.57	M	6.89
8/11/85	6.56	6.56	6.53	6.31	6.35	6.47	6.71	6.61	M	6.90
8/12/85	6.59	6.60	6.58	6.35	6.39	6.50	6.75	6.63	M	6.97
8/13/85	6.60	6.59	6.58	6.34	6.38	6.53	6.74	6.62	M	7.04
8/14/85	6.60	6.58	6.60	6.33	6.37	6.56	6.74	6.62	M	7.04
8/15/85	6.60	6.59	6.60	6.33	6.36	6.59	6.74	6.62	M	7.03
8/16/85	6.60	6.58	6.61	6.32	6.36	6.62	6.74	6.61	6.32	7.02
8/17/85	6.59	6.57	6.62	6.30	6.35	6.65	6.75	6.64	6.32	7.01
8/18/85	6.59	6.58	6.64	6.30	6.35	6.68	6.82	6.68	6.33	7.00
8/19/85	6.59	6.59	6.66	6.31	6.36	6.71	6.83	6.68	6.33	7.01
8/20/85	6.61	6.62	6.68	6.34	6.38	6.74	6.83	6.69	6.34	7.10
8/21/85	6.63	6.64	6.69	6.36	6.40	6.76	6.89	6.76	6.37	7.09
8/22/85	6.65	6.66	6.71	6.38	6.43	6.78	7.04	6.85	6.42	7.08
8/23/85	6.70	6.66	6.73	6.39	6.44	6.81	7.13	6.88	6.47	7.08
8/24/85	6.73	6.68	6.74	6.41	6.45	6.82	7.19	6.88	6.49	7.10
8/25/85	6.72	6.68	6.77	6.41	6.46	6.79	7.17	6.86	6.51	7.10
8/26/85	6.71	6.68	6.78	6.41	6.46	6.77	7.13	6.85	6.50	7.09
8/27/85	6.72	6.71	6.80	6.42	6.47	6.78	7.11	6.85	6.49	7.09

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
8/28/85	6.74	6.73	6.82	6.44	6.49	6.81	7.10	6.85	6.50	7.18
8/29/85	6.78	6.83	7.05	6.47	6.52	6.83	7.11	6.86	6.51	7.15
8/30/85	6.79	6.86	7.03	6.48	6.53	6.84	7.10	6.87	6.51	7.14
8/31/85	6.80	6.85	7.00	6.48	6.53	6.84	7.08	6.85	6.50	7.18
9/ 1/85	6.80	6.84	6.96	6.49	6.52	6.83	7.06	6.83	6.49	7.20
9/ 2/85	6.80	6.82	6.91	6.49	6.52	6.82	7.04	6.82	6.48	7.24
9/ 3/85	6.80	6.81	6.92	6.49	6.53	6.82	7.03	6.81	6.48	7.12
9/ 4/85	6.80	6.80	6.97	6.49	6.53	6.82	7.01	6.80	6.47	7.08
9/ 5/85	6.80	6.84	7.02	6.50	6.54	6.86	7.04	6.84	6.50	7.05
9/ 6/85	6.81	6.87	7.01	6.51	6.55	6.89	7.08	6.86	6.53	7.02
9/ 7/85	6.81	6.86	7.01	6.52	6.56	6.87	7.07	6.85	6.53	6.98
9/ 8/85	6.84	6.87	7.00	6.53	6.57	6.87	7.07	6.86	6.53	6.94
9/ 9/85	6.91	6.91	7.03	6.59	6.62	6.90	7.11	6.90	6.55	6.91
9/10/85	6.91	6.91	7.03	6.60	6.62	6.92	7.11	6.90	6.55	6.88
9/11/85	6.91	6.89	7.00	6.62	6.64	6.93	7.11	6.90	6.56	6.84
9/12/85	6.92	6.89	7.00	6.65	6.67	6.94	7.12	6.91	6.58	6.82
9/13/85	6.94	6.91	6.99	6.65	6.67	6.97	7.14	6.93	6.58	6.80
9/14/85	6.96	6.93	6.99	6.66	6.68	7.00	7.14	6.93	6.59	6.79
9/15/85	6.96	6.93	6.98	6.66	6.69	6.99	7.12	6.91	6.59	6.99
9/16/85	6.98	6.96	7.01	6.76	6.78	7.00	7.12	6.91	6.66	6.99
9/17/85	7.07	7.07	7.14	6.90	6.93	7.12	7.16	6.96	6.76	6.99
9/18/85	7.18	7.12	7.22	6.93	6.96	7.19	7.20	6.99	6.80	7.06
9/19/85	7.17	7.09	7.20	6.92	6.95	7.19	7.19	6.97	6.77	6.99
9/20/85	7.17	7.08	7.21	6.94	6.96	7.19	7.19	6.98	6.78	6.99
9/21/85	7.16	7.05	7.17	6.92	6.95	7.19	7.19	M	6.77	6.99
9/22/85	7.11	7.02	7.12	6.88	6.91	7.14	7.17	M	6.74	6.99
9/23/85	7.07	6.97	7.07	6.84	6.87	7.11	7.17	M	6.71	6.99
9/24/85	7.03	6.93	7.01	6.80	6.84	7.07	7.16	M	6.68	7.06
9/25/85	6.99	6.89	6.94	6.77	6.80	7.04	7.15	M	6.66	7.11
9/26/85	6.96	6.85	6.88	6.74	6.77	7.00	7.15	M	6.63	6.99
9/27/85	6.94	6.82	6.82	6.73	6.76	6.97	7.16	M	6.62	7.06
9/28/85	6.91	6.78	6.77	6.69	6.73	6.94	7.17	M	6.60	6.99
9/29/85	6.88	6.76	6.74	6.66	6.71	6.92	7.18	M	6.60	6.99
9/30/85	6.88	6.76	6.73	6.66	6.70	6.93	7.21	M	6.62	6.99
10/ 1/85	6.87	6.74	6.72	6.66	6.70	6.93	7.24	M	6.63	6.99
10/ 2/85	6.84	6.72	6.74	6.63	6.69	6.89	7.24	M	6.63	7.06
10/ 3/85	6.83	6.74	6.77	6.62	6.68	6.87	7.26	M	6.64	7.11
10/ 4/85	6.84	6.77	6.82	6.66	6.74	6.91	7.34	M	6.80	7.29
10/ 5/85	6.95	6.91	6.94	6.76	6.84	7.02	7.45	M	6.88	7.27
10/ 6/85	6.97	6.92	6.97	6.75	6.81	7.02	7.45	M	6.86	7.21
10/ 7/85	7.02	6.97	7.03	6.80	6.85	7.05	7.41	M	6.84	7.18
10/ 8/85	7.01	6.93	6.97	6.79	6.85	7.05	7.36	M	6.81	7.12
10/ 9/85	7.00	6.90	6.97	6.77	6.83	7.03	7.33	M	6.78	7.16
10/10/85	6.98	6.89	6.97	6.76	6.81	7.01	7.29	M	6.76	7.16
10/11/85	6.98	6.89	6.96	6.74	6.79	6.99	7.27	M	6.74	7.17
10/12/85	6.97	6.88	6.96	6.73	6.78	6.99	7.28	M	6.75	7.17
10/13/85	6.96	6.88	6.95	6.73	6.77	6.98	7.27	M	6.75	7.17
10/14/85	6.95	6.88	6.95	6.71	6.76	6.97	7.25	M	6.72	7.17

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
10/15/85	6.94	6.87	6.95	6.70	6.74	6.96	7.23		M 6.70	7.17
10/16/85	6.93	6.86	6.95	6.69	6.73	6.95	7.21		M 6.68	7.17
10/17/85	6.92	6.86	6.94	6.68	6.72	6.94	7.20		M 6.66	7.17
10/18/85	6.91	6.86	6.95	6.67	6.71	6.94	7.20		M 6.65	7.18
10/19/85	6.91	6.87	6.96	6.66	6.70	6.93	7.21		M 6.65	7.23
10/20/85	6.93	6.88	6.99	6.69	6.73	6.97	7.25		M 6.67	7.22
10/21/85	6.93	6.88	6.99	6.68	6.72	6.96	7.25		M 6.67	7.23
10/22/85	6.93	6.88	6.99	6.68	6.71	6.95	7.24		M 6.66	7.22
10/23/85	6.92	6.88	6.99	6.67	6.70	6.95	7.24		M 6.66	7.22
10/24/85	6.92	6.88	6.98	6.67	6.71	6.94	7.23		M 6.66	7.22
10/25/85	6.92	6.88	6.97	6.67	6.70	6.94	7.23	7.04	6.65	7.21
10/26/85	6.91	6.87	6.96	6.66	6.69	6.93	7.21	7.02	6.65	7.21
10/27/85	6.97	6.91	6.95	6.70	6.72	6.99	7.24	7.06	6.68	7.34
10/28/85	7.03	6.98	6.98	6.76	6.77	7.05	7.30	7.11	6.71	7.32
10/29/85	7.03	6.97	7.00	6.76	6.78	7.06	7.30	7.12	6.71	7.30
10/30/85	7.03	6.96	7.02	6.75	6.77	7.06	7.30	7.11	6.71	7.28
10/31/85	7.02	6.94	7.04	6.74	6.76	7.04	7.28	7.09	6.71	7.26
11/ 1/85	7.00	6.94	7.05	6.73	6.75	7.02	7.27	7.07	6.70	7.25
11/ 2/85	6.99	6.94	7.05	6.72	6.74	7.01	7.25	7.06	6.69	7.25
11/ 3/85	6.99	6.93	7.05	6.71	6.74	7.01	7.24	7.05		M 7.26
11/ 4/85	7.00	6.94	7.06	6.73	6.76	7.03	7.27	7.08		M 7.26
11/ 5/85	6.99	6.93	7.05	6.71	6.75	7.01	7.24	7.06		M 7.25
11/ 6/85	6.98	6.93	7.05	6.70	6.74	7.00	7.23	7.03		M 7.24
11/ 7/85	6.97	6.92	7.05	6.70	6.73	6.99	7.22	7.02		M 7.23
11/ 8/85	6.96	6.92	7.05	6.69	6.73	6.98	7.20	7.01		M 7.23
11/ 9/85	6.96	6.91	7.05	6.68	6.72	6.97	7.19	6.99		M 7.23
11/10/85	6.95	6.91	7.04	6.68	6.71	6.97	7.17	6.98		M 7.22
11/11/85	6.95	6.91	7.04	6.67	6.71	6.96	7.16	6.97		M 7.22
11/12/85	6.95	6.92	7.05	6.67	6.70	6.96	7.15	6.96		M 7.21
11/13/85	6.95	6.92	7.06	6.66	6.70	6.96	7.14	6.94		M 7.21
11/14/85	6.95	6.92	7.07	6.66	6.69	6.96	7.12	6.93		M 7.21
11/15/85	6.95	6.92	7.07	6.65	6.69	6.95	7.11	6.92		M 7.21
11/16/85	6.94	6.91	7.07	6.65	6.69	6.95	7.09	6.91		M 7.20
11/17/85	6.94	6.91	7.06	6.64	6.68	6.95	7.08	6.89		M 7.19
11/18/85	6.93	6.90	7.04	6.63	6.67	6.94	7.06	6.88		M 7.18
11/19/85	6.94	6.92	7.03	6.65	6.70	6.97	7.07	6.90		M 7.06
11/20/85	6.99	6.92	7.01	6.68	6.78	7.05	7.14	6.95		M 7.09
11/21/85	6.98	6.90	6.99	6.68	6.76	7.02	7.13	6.93	6.64	7.10
11/22/85	6.97	6.89	7.00	6.69	6.75	7.00	7.12	6.93	6.64	7.11
11/23/85	6.96	6.90	7.00	6.68	6.75	6.99	7.11	6.91	6.64	7.11
11/24/85	6.96	6.89	6.98	6.66	6.74	6.98	7.09	6.90	6.63	7.10
11/25/85	6.95	6.87	6.96 P	6.65	6.73	6.97	7.07	6.87	6.61	7.10
11/26/85	6.94	6.86	6.95 P	6.64	6.72	6.96	7.05	6.85	6.60	7.09
11/27/85	6.92	6.85	6.93	6.63	6.70	6.94	7.02	6.83	6.59	7.04
11/28/85	6.91	6.83	6.90	6.62	6.69	6.93	7.00	6.80	6.57	7.01
11/29/85	6.90	6.81	6.90	6.61	6.68	6.92	6.98	6.78	6.56	7.00
11/30/85	6.89	6.80	6.89	6.60	6.67	6.91	6.95	6.76	6.54	6.98
12/ 1/85	6.87	6.78	6.88	6.58	6.65	6.90	6.93	6.74	6.52	6.97

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
12/ 2/85	6.86	6.77	6.86	6.57	6.64	6.88	6.91	6.71	6.51	6.96
12/ 3/85	6.84	6.76	6.85	6.56	6.63	6.87	6.88	6.70	6.50	6.95
12/ 4/85	6.83	6.75	6.84	6.55	6.62	6.87	6.87	6.68	6.49	6.93
12/ 5/85	6.84	6.75	6.84	6.55	6.62	6.89	6.88	6.69	6.49	6.93
12/ 6/85	6.85	6.75	6.84	6.57	6.63	6.88	6.86	6.67	6.50	6.93
12/ 7/85	6.83	6.74	6.81	6.56	6.61	6.86	6.83	6.65	6.49	6.92
12/ 8/85	6.81	6.72	6.78	6.55	6.60	6.84	6.81	6.63	6.49	6.90
12/ 9/85	6.80	6.71	6.76	6.54	6.59	6.83	6.79	6.61	6.48	6.89
12/10/85	6.78	6.70	6.75	6.53	6.58	6.82	6.78	6.59	6.47	6.89
12/11/85	6.77	6.68	6.73	6.52	6.57	6.81	6.76	6.58	6.46	6.86
12/12/85	6.75	6.66	6.72	6.50	6.55	6.80	6.74	6.56	6.45	6.85
12/13/85	6.74	6.65	6.70	6.49	6.54	6.80	6.72	6.54	6.43	6.84
12/14/85	6.74	6.64	6.70	6.48	6.53	6.80	6.70	6.54	6.42	6.84
12/15/85	6.72	6.63	6.69	6.47	6.52	6.78	6.67	6.52	6.42	6.83
12/16/85	6.71	6.62	6.67	6.46	6.51	6.76	6.66	6.50	6.41	6.83
12/17/85	6.71	6.63	6.68	6.46	6.51	6.76	6.66	6.49	6.41	6.83
12/18/85	6.71	6.62	6.67	6.45	6.51	6.75	6.65	6.48	6.40	6.82
12/19/85	6.70	6.61	6.66	6.45	6.50	6.74	6.63	6.48	6.39	6.81
12/20/85	6.68	6.59	6.64	6.43	6.48	6.73	6.61	6.46	M	6.80
12/21/85	6.67	6.58	6.63	6.43	6.47	6.72	6.60	6.44	M	6.79
12/22/85	6.66	6.57	6.61	6.42	6.46	6.71	6.59	6.43	M	6.78
12/23/85	6.65	6.56	6.60	6.41	6.45	6.70	6.59	6.42	M	6.78
12/24/85	6.65	6.55	6.59	6.40	6.44	6.70	6.59	6.43	M	6.78
12/25/85	6.66	6.57	6.60	6.45	6.47	6.72	6.60	6.43	M	6.77
12/26/85	6.65	6.55	6.58	6.43	6.45	6.71	6.58	6.42	M	6.76
12/27/85	6.63	6.54	6.56	6.42	6.43	6.69	6.56	6.39	M	6.74
12/28/85	6.63	6.54	6.56	6.41	6.44	6.69	6.56	6.39	M	6.76
12/29/85	6.64	6.56	6.58	6.41	6.45	6.72	6.57	6.40	M	6.76
12/30/85	6.63	6.54	6.57	6.40	6.44	6.70	6.56	6.39	M	6.74
12/31/85	6.62	6.53	6.55	6.40	6.43	6.69	6.55	6.37	M	6.73
1/ 1/86	6.61	6.52	6.54	6.39	6.42	6.67	6.54	6.36	M	6.73
1/ 2/86	6.60	6.51	6.53	6.38	6.41	6.66	6.53	6.36	M	6.71
1/ 3/86	6.59	6.50	6.51	6.38	6.41	6.66	6.53	6.35	M	6.71
1/ 4/86	6.58	6.48	6.50	6.37	6.40	6.65	6.52	6.34	M	6.71
1/ 5/86	6.57	6.47	6.49	6.36	6.39	6.64	6.50	6.33	M	6.71
1/ 6/86	6.56	6.46	6.48	6.35	6.37	6.63	6.48	6.31	M	6.70
1/ 7/86	6.55	6.45	6.47	6.35	6.36	6.61	6.49	6.31	M	6.74
1/ 8/86	6.56	6.46	6.48	6.36	6.37	6.64	6.53	6.37	M	6.76
1/ 9/86	6.61	6.54	6.58	6.37	6.41	6.75	6.61	6.45	M	6.79
1/10/86	6.70	6.59	6.62	6.41	6.47	6.86	6.72	6.53	M	6.79
1/11/86	6.72	6.59	6.63	6.43	6.48	6.88	6.76	6.58	M	6.82
1/12/86	6.71	6.59	6.63	6.45	6.48	6.84	6.74	6.57	M	6.79
1/13/86	6.70	6.59	6.63	6.44	6.48	6.81	6.73	6.56	M	6.78
1/14/86	6.68	6.57	6.61	6.43	6.47	6.77	6.69	6.53	M	6.77
1/15/86	6.67	6.56	6.60	6.42	6.46	6.75	6.67	6.51	M	6.78
1/16/86	6.66	6.55	6.59	6.41	6.45	6.74	6.65	6.48	M	6.77
1/17/86	6.64	6.54	6.59	6.40	6.45	6.72	6.64	6.46	6.40	6.76
1/18/86	6.63	6.53	6.58	6.39	6.44	6.72	6.63	6.45	6.39	6.76

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
1/19/86	6.63	6.52	6.58	6.39	6.43	6.71	6.62	6.44	6.38	6.76
1/20/86	6.61	6.51	6.58	6.38	6.42	6.69	6.61	6.43	6.38	6.75
1/21/86	6.60	6.50	6.56	6.36	6.41	6.67	6.59	6.41	6.37	6.75
1/22/86	6.59	6.49	6.55	6.35	6.40	6.66	6.58	6.40	6.37	6.76
1/23/86	6.58	6.48	6.55	6.34	6.39	6.66	6.57	6.38	6.36	6.76
1/24/86	6.57	6.48	6.54	6.33	6.38	6.65	6.56	6.37	6.35	6.76
1/25/86	6.56	6.47	6.54	6.32	6.37	6.64	6.56	6.36	6.34	6.76
1/26/86	6.55	6.47	6.53	6.31	6.36	6.63	6.55	6.35	6.34	6.75
1/27/86	6.55	6.46	6.52	6.30	6.35	6.62	6.54	6.34	6.33	6.75
1/28/86	6.53	6.44	6.51	6.28	6.33	6.60	6.52	6.33	6.32	6.74
1/29/86	6.52	6.44	6.49	6.27	6.32	6.59	6.51	6.31	6.31	6.73
1/30/86	6.51	6.43	6.48	6.26	6.31	6.58	6.50	6.31	6.31	6.72
1/31/86	6.50	6.42	6.46	6.25	6.30	6.57	6.49	6.30	6.31	6.71
2/ 1/86	6.49	6.41	6.44	6.24	6.29	6.56	6.48	6.29	6.30	6.70
2/ 2/86	6.49	6.41	6.44	6.23	6.28	6.56	6.48	6.29	6.29	6.70
2/ 3/86	6.48	6.40	6.42	6.22	6.27	6.55	6.47	6.28	6.28	6.69
2/ 4/86	6.47	6.39	6.41	6.21	6.26	6.54	6.47	6.27	6.27	6.68
2/ 5/86	6.46	6.38	6.39	6.20	6.25	6.53	6.46	6.27	6.27	6.67
2/ 6/86	6.45	6.37	6.37	6.19	6.24	6.52	6.46	6.26	6.26	6.65
2/ 7/86	6.45	6.36	6.37	6.18	6.22	6.50	6.46	6.27	6.27	6.65
2/ 8/86	6.45	6.36	6.39	6.17	6.21	6.50	6.47	6.28	6.27	6.64
2/ 9/86	6.44	6.35	6.37	6.16	6.20	6.50	6.47	6.28	6.27	6.64
2/10/86	6.43	6.35	6.35	6.15	6.19	6.49	6.46	6.27	6.26	6.63
2/11/86	6.41	6.34	6.33	6.14	6.18	6.49	6.46	6.26	6.27	6.62
2/12/86	6.41	6.33	6.32	6.13	6.17	6.48	6.45	6.26	6.27	6.61
2/13/86	6.39	6.32	6.29	6.12	6.16	6.48	6.44	6.26	6.27	6.60
2/14/86	6.38	6.30	6.27	6.11	6.14	6.46	6.43	6.24	6.25	6.60
2/15/86	6.37	6.29	6.25	6.09	6.14	6.45	6.42	6.23	6.25	6.59
2/16/86	6.36	6.28	6.21	6.08	6.12	6.44	6.41	6.22	6.24	6.58
2/17/86	6.35	6.27	6.19	6.07	6.11	6.43	6.41	6.21	6.23	6.58
2/18/86	6.43	6.37	6.31	6.15	6.19	6.59	6.50	6.30	6.28	6.66
2/19/86	6.48	6.42	6.41	6.19	6.23	6.68	6.56	6.36	6.31	6.65
2/20/86	6.47	6.41	6.41	6.18	6.22	6.63	6.54	6.34	6.30	6.63
2/21/86	6.46	6.40	6.39	6.17	6.21	6.59	6.52	6.32	6.29	6.61
2/22/86	6.45	6.38	6.36	6.16	6.20	6.56	6.50	6.29	6.28	6.60
2/23/86	6.44	6.37	6.34	6.15	6.19	6.54	6.48	6.28	6.27	6.60
2/24/86	6.43	6.35	6.32	6.14	6.18	6.51	6.46	6.26	6.26	6.59
2/25/86	6.41	6.33	6.29	6.13	6.16	6.49	6.44	6.23	6.25	6.57
2/26/86	6.39	6.31	6.25	6.11	6.15	6.47	6.40	6.20	6.23	6.56
2/27/86	6.38	6.30	6.21	6.10	6.13	6.46	6.39	6.18	6.21	6.55
2/28/86	6.36	6.28	6.17	6.09	6.12	6.44	6.38	6.16	6.20	6.54
3/ 1/86	6.36	6.27	6.14	6.08	6.11	6.43	6.36	6.15	6.20	6.53
3/ 2/86	6.34	6.25	6.07	6.06	6.10	6.42	6.34	6.13	6.19	6.52
3/ 3/86	6.33	6.24	6.00	6.04	6.08	6.41	6.33	6.11	6.17	6.51
3/ 4/86	6.31	6.23	5.92	6.03	6.07	6.40	6.32	6.10	6.16	6.51
3/ 5/86	6.30	6.21	5.83	6.02	6.06	6.39	6.30	6.09	6.16	6.51
3/ 6/86	6.29	6.20	5.77	6.00	6.05	6.37	6.28	6.07	6.14	6.50
3/ 7/86	6.28	6.18	5.71	5.99	6.03	6.36	6.27	6.06	6.13	6.49

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
3/ 8/86	6.27	6.17	5.65	5.97	6.01	6.35	6.26	6.05	6.11	6.48
3/ 9/86	6.26	6.15	5.60	5.96	6.00	6.33	6.24	6.03	6.10	6.48
3/10/86	6.33	6.22	5.86	6.00	6.03	6.40	6.33	6.15	6.15	6.77
3/11/86	6.45	6.33	6.37	6.09	6.08	6.64	6.53	6.33	6.26	6.73
3/12/86	6.43	6.34	6.36	6.09	6.09	6.60	6.53	6.33	6.27	6.65
3/13/86	6.45	6.34	6.36	6.11	6.11	6.59	6.57	6.35	6.29	6.64
3/14/86	6.47	6.35	6.37	6.14	6.14	6.61	6.61	6.41	6.31	6.63
3/15/86	6.45	6.34	6.36	6.14	6.14	6.58	6.59	6.38	6.31	6.61
3/16/86	6.45	6.34	6.35	6.13	6.14	6.57	6.58	6.37	6.31	6.66
3/17/86	6.44	6.34	6.37	6.13	6.14	6.56	6.56	6.36	6.30	6.64
3/18/86	6.43	6.34	6.35	6.12	6.14	6.54	6.54	6.33	6.29	6.62
3/19/86	6.41	6.33	6.33	6.11	6.13	6.52	6.51	6.30	6.28	6.62
3/20/86	6.40	6.31	6.31	6.10	6.12	6.50	6.49	6.28	6.27	6.61
3/21/86	6.45	6.35	6.34	6.15	6.18	6.64	6.58	6.38	6.34	6.69
3/22/86	6.45	6.35	6.36	6.16	6.19	6.67	6.60	6.41	6.34	6.66
3/23/86	6.44	6.34	6.34	6.15	6.18	6.62	6.57	6.38	6.33	6.64
3/24/86	6.43	6.33	6.33	6.14	6.16	6.59	6.56	6.37	6.32	6.63
3/25/86	6.42	6.32	6.31	6.13	6.15	6.56	6.55	6.35	6.31	6.66
3/26/86	6.48	6.39	6.39	6.22	6.22	6.71	6.64	6.44	6.36	6.75
3/27/86	6.58	6.48	6.53	6.33	6.33	6.82	6.70	6.51	6.41	6.82
3/28/86	6.65	6.56	6.59	6.42	6.43	6.79	6.69	6.50	6.41	6.79
3/29/86	6.63	6.55	6.58	6.40	6.43	6.74	6.66	6.47	6.39	6.77
3/30/86	6.62	6.56	6.59	6.39	6.42	6.71	6.64	6.45	6.37	6.81
3/31/86	6.61	6.58	6.63	6.38	6.41	6.69	6.63	6.43	6.36	6.80
4/ 1/86	6.60	6.56	6.61	6.36	6.40	6.66	6.61	6.42	6.36	6.86
4/ 2/86	6.59	6.54	6.61	6.35	6.39	6.64	6.61	6.41	6.36	6.87
4/ 3/86	6.57	6.53	6.60	6.33	6.37	6.62	6.61	6.42	6.36	6.88
4/ 4/86	6.56	6.53	6.58	6.32	6.35	6.60	6.62	6.42	6.36	6.88
4/ 5/86	6.55	6.52	6.58	6.30	6.34	6.58	6.62	6.43	6.36	6.88
4/ 6/86	6.53	6.51	6.60	6.29	6.32	6.57	6.63	6.44	6.36	6.89
4/ 7/86	6.53	6.51	6.61	6.27	6.31	6.56	6.65	6.46	6.37	6.89
4/ 8/86	6.52	6.51	6.62	6.26	6.29	6.55	6.66	6.47	6.37	6.89
4/ 9/86	6.51	6.51	6.64	6.24	6.28	6.54	6.67	6.48	M	6.90
4/10/86	6.50	6.50	6.64	6.22	6.26	6.53	6.67	6.48	M	6.90
4/11/86	6.49	6.50	6.64	6.21	6.24	6.51	6.67	6.49	M	6.90
4/12/86	6.49	6.50	6.64	6.20	6.23	6.50	6.68	6.48	M	6.90
4/13/86	6.53	6.55	6.70	6.24	6.27	6.58	6.75	6.55	M	6.96
4/14/86	6.55	6.57	6.72	6.25	6.28	6.62	6.77	6.57	M	6.95
4/15/86	6.55	6.57	6.71	6.24	6.26	6.60	6.77	6.56	M	6.94
4/16/86	6.55	6.57	6.70	6.23	6.25	6.59	6.75	6.55	M	6.88
4/17/86	6.54	6.56	6.67	6.21	6.24	6.58	6.73	6.54	M	6.86
4/18/86	6.54	6.54	6.65	6.20	6.22	6.57	6.71	6.52	M	6.84
4/19/86	6.53	6.53	6.63	6.19	6.21	6.56	6.68	6.50	6.39	6.84
4/20/86	6.52	6.52	6.61	6.18	6.20	6.55	6.67	6.48	6.38	6.83
4/21/86	6.51	6.50	6.60	6.18	6.19	6.55	6.65	6.46	6.37	6.83
4/22/86	6.50	6.49	6.58	6.17	6.18	6.54	6.64	6.45	6.37	6.83
4/23/86	6.48	6.47	6.55	6.15	6.16	6.52	6.61	6.43	6.37	6.80
4/24/86	6.47	6.46	6.52	6.14	6.15	6.51	6.59	6.40	6.36	6.79

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
4/25/86	6.46	6.44	6.49	6.13	6.14	6.50	6.58	6.38	6.35	6.78
4/26/86	6.44	6.43	6.49	6.11	6.13	6.49	6.56	6.37	6.34	6.77
4/27/86	6.43	6.42	6.47	6.10	6.11	6.47	6.56	6.36	6.34	6.76
4/28/86	6.42	6.40	6.46	6.09	6.10	6.46	6.54	6.34	6.33	6.75
4/29/86	6.41	6.39	6.44	6.07	6.09	6.45	6.53	6.33	6.33	6.75
4/30/86	6.39	6.37	6.42	6.06	6.07	6.43	6.52	6.32	6.32	6.72
5/ 1/86	6.38	6.36	6.39	6.04	6.06	6.42	6.50	6.31	6.31	6.70
5/ 2/86	6.37	6.34	6.37	6.02	6.04	6.41	6.49	6.29	6.30	6.69
5/ 3/86	6.35	6.33	6.35	6.01	6.03	6.39	6.48	6.28	6.30	6.67
5/ 4/86	6.34	6.33	6.33	6.04	6.04	6.38	6.48	6.29	6.32	6.66
5/ 5/86	6.34	6.33	6.34	6.06	6.07	6.38	6.49	6.29	6.32	6.66
5/ 6/86	6.33	6.32	6.33	6.05	6.06	6.38	6.48	6.29	6.31	6.65
5/ 7/86	6.33	6.30	6.30	6.04	6.06	6.38	6.47	6.28	6.31	6.61
5/ 8/86	6.32	6.28	6.27	6.02	6.04	6.38	6.46	6.26	6.30	6.60
5/ 9/86	6.31	6.27	6.26	6.01	6.05	6.36	6.44	6.24	6.29	6.59
5/10/86	6.29	6.25	6.25	6.02	6.08	6.34	6.44	6.24	6.29	6.58
5/11/86	6.28	6.24	6.22	6.00	6.06	6.34	6.42	6.22	6.27	6.57
5/12/86	6.27	6.22	6.19	5.97	6.04	6.32	6.40	6.20	6.26	6.56
5/13/86	6.26	6.21	6.16	5.96	6.02	6.31	6.39	6.19	6.25	6.55
5/14/86	6.28	6.22	6.15	5.95	6.01	6.29	6.39	6.19	6.25	6.57
5/15/86	6.28	6.24	6.14	5.95	6.00	6.29	6.38	6.19	6.25	6.56
5/16/86	6.28	6.24	6.11	5.94	5.99	6.29	6.39	6.19	6.24	6.55
5/17/86	6.26	6.22	6.03	5.93	5.98	6.27	6.37	6.17	6.23	6.52
5/18/86	6.25	6.20	5.90	5.90	5.96	6.26	6.36	6.15	6.22	6.50
5/19/86	6.24	6.18	5.67	5.89	5.94	6.23	6.34	6.14	6.20	6.48
5/20/86	6.22	6.16	5.53	5.87	5.93	6.22	6.33	6.13	6.20	6.46
5/21/86	6.21	6.15	5.48	5.85	5.91	6.20	6.32	6.11	6.18	6.49
5/22/86	6.22	6.14	5.60	5.86	5.89	6.19	6.32	6.11	6.19	6.50
5/23/86	6.24	6.13	5.65	5.86	5.88	6.19	6.34	6.14	6.19	6.49
5/24/86	6.24	6.13	5.61	5.84	5.87	6.18	6.34	6.13	6.19	6.49
5/25/86	6.22	6.11	5.53	5.82	5.85	6.17	6.32	6.11	6.18	6.47
5/26/86	6.21	6.09	5.42	5.80	5.82	6.15	6.29	6.08	6.16	6.45
5/27/86	6.19	6.07	5.32	5.78	5.79	6.12	6.26	6.06	6.14	6.43
5/28/86	6.17	6.05	5.26	5.76	5.77	6.10	6.23	6.03	6.10	6.42
5/29/86	6.15	6.03	5.20	5.73	5.76	6.08	6.20	5.99	6.07	6.42
5/30/86	6.13	6.01	5.16	5.71	5.75	6.05	6.16	5.95	6.03	6.40
5/31/86	6.11	5.98	5.15	5.68	5.75	6.03	6.12	5.92	6.00	6.38
6/ 1/86	6.10	5.97	5.18	5.65	5.75	6.01	6.10	5.91	5.99	6.37
6/ 2/86	6.16	6.05	5.27	5.72	5.80	6.08	6.15	5.96	6.05	6.47
6/ 3/86	6.27	6.18	5.22	5.80	5.88	6.20	6.20	6.00	6.08	6.45
6/ 4/86	6.25	6.16	5.13	5.77	5.86	6.17	6.17	5.97	6.05	6.42
6/ 5/86	6.24	6.15	5.05	5.76	5.83	6.13	6.13	5.94	6.02	6.40
6/ 6/86	6.22	6.13	5.00	5.76	5.80	6.09	6.10	5.91	5.99	6.38
6/ 7/86	6.22	6.12	4.96	5.79	5.83	6.07	6.10	5.91	5.99	6.37
6/ 8/86	6.27	6.12	5.38	5.98	6.04	6.15	6.21	6.04	6.11	6.38
6/ 9/86	6.28	6.13	5.66	6.09	6.16	6.29	6.28	6.09	6.17	6.38
6/10/86	6.28	6.12	5.72	6.06	6.12	6.34	6.27	6.08	6.15	6.37
6/11/86	6.27	6.11	5.47	6.05	6.12	6.30	6.29	6.16	6.22	6.35

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
6/12/86	6.43	6.13	5.31	6.23	6.29	6.50	6.54	6.38	6.39	6.57
6/13/86	6.68	6.24	5.25	6.49	6.53	6.87	6.71	6.53	6.50	6.58
6/14/86	6.68	6.30	5.27	6.49	6.55	6.85	6.70	6.52	6.45	6.57
6/15/86	6.67	6.33	5.31	6.47	6.53	6.83	6.72	6.55	6.48	6.57
6/16/86	6.68	6.37	5.39	6.52	6.59	6.86	6.81	6.63	6.52	6.58
6/17/86	6.71	6.39	5.45	6.56	6.63	6.89	6.85	6.65	6.53	6.58
6/18/86	6.69	6.39	5.50	6.51	6.58	6.84	6.81	6.63	6.50	6.58
6/19/86	6.71	6.41	5.77	6.51	6.56	6.91	6.86	6.72	6.51	6.69
6/20/86	6.83	6.56	6.20	6.64	6.68	7.00	7.02	6.83	6.61	6.74
6/21/86	6.87	6.62	6.37	6.68	6.74	6.96	7.04	6.84	6.64	6.73
6/22/86	6.84	6.61	6.42	6.64	6.69	6.93	6.99	6.79	6.62	6.70
6/23/86	6.82	6.61	6.46	6.62	6.66	6.93	6.96	6.76	6.61	6.78
6/24/86	6.81	6.60	6.52	6.60	6.64	6.93	6.94	6.75	6.59	6.81
6/25/86	6.78	6.60	6.55	6.57	6.62	6.88	6.89	6.70	6.57	6.83
6/26/86	6.75	6.60	6.58	6.54	6.59	6.84	6.84	6.66	6.55	6.83
6/27/86	6.81	6.65	6.60	6.55	6.58	6.88	6.84	6.66	6.57	6.84
6/28/86	6.86	6.70	6.61	6.58	6.61	6.96	6.85	6.67	6.56	6.86
6/29/86	6.85	6.76	6.65	6.58	6.61	6.94	6.83	6.65	6.54	6.92
6/30/86	6.86	6.79	6.71	6.57	6.60	6.92	6.81	6.63	6.53	7.04
7/ 1/86	6.88	6.81	6.76	6.57	6.59	6.92	6.83	6.65	6.52	7.02
7/ 2/86	6.86	6.79	6.78	6.56	6.58	6.90	6.83	6.66	6.51	7.01
7/ 3/86	6.86	6.79	6.80	6.56	6.57	6.92	6.86	6.69	6.51	7.09
7/ 4/86	6.87	6.81	6.86	6.55	6.57	6.94	6.89	6.71	6.52	7.11
7/ 5/86	6.91	6.85	6.93	6.58	6.58	6.94	6.92	6.74	6.53	7.22
7/ 6/86	7.01	6.93	6.96	6.66	6.64	7.00	6.97	6.78	6.55	7.18
7/ 7/86	7.00	6.92	6.98	6.67	6.66	7.02	7.01	6.81	6.57	7.16
7/ 8/86	6.99	6.93	7.00	6.67	6.67	7.02	7.04	6.85	6.58	7.16
7/ 9/86	6.98	6.93	7.02	6.66	6.66	7.02	7.09	6.90	6.59	7.15
7/10/86	6.98	6.93	7.05	6.67	6.66	7.02	7.16	6.97	6.60	7.15
7/11/86	6.98	6.92	7.04	6.70	6.72	7.00	7.23	7.04	6.66	7.15
7/12/86	6.97	6.92	7.02	6.72	6.77	7.00	7.29	7.09	6.71	7.14
7/13/86	6.96	6.91	7.01	6.69	6.73	7.00	7.33	7.13	6.73	7.14
7/14/86	6.95	6.90	7.01	6.67	6.71	7.00	7.37	7.16	6.75	7.14
7/15/86	6.94	6.89	6.99	6.65	6.69	6.98	7.40	7.18	6.77	7.14
7/16/86	6.92	6.88	6.97	6.63	6.67	6.96	7.42	7.20	6.78	7.14
7/17/86	6.91	6.87	6.95	6.61	6.65	6.94	7.43	7.21	6.79	7.13
7/18/86	6.89	6.86	6.95	6.60	6.64	6.93	7.44	7.22	6.81	7.14
7/19/86	6.90	6.87	6.96	6.60	6.64	6.93	7.45	7.24	6.83	7.14
7/20/86	6.89	6.87	6.97	6.60	6.66	6.97	7.50	7.31	6.88	7.15
7/21/86	6.92	6.87	6.98	6.60	6.67	7.01	7.55	7.33	6.94	7.15
7/22/86	6.94	6.89	6.99	6.60	6.66	6.98	7.54	7.34	6.93	7.17
7/23/86	6.99	6.94	7.03	6.61	6.65	6.97	7.57	7.35	6.93	7.18
7/24/86	6.99	6.94	7.04	6.62	6.66	6.98	7.56	7.34	6.93	7.18
7/25/86	6.98	6.93	7.06	6.63	6.67	7.01	7.56	7.35	6.94	7.18
7/26/86	7.00	6.98	7.12	6.67	6.72	7.08	7.63	7.44	7.00	7.31
7/27/86	7.06	7.06	7.16	6.76	6.82	7.21	7.74	7.49	7.09	7.32
7/28/86	7.06	7.07	7.18	6.80	6.86	7.17	7.69	7.46	7.08	7.26
7/29/86	7.06	7.04	7.14	6.80	6.85	7.14	7.66	7.43	7.06	7.22

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
7/30/86	7.04	7.02	7.10	6.78	6.84	7.12	7.63	7.40	7.04	7.19
7/31/86	7.03	6.99	7.07	6.76	6.82	7.09	7.60	7.37	7.01	7.18
8/ 1/86	7.02	6.96	7.04	6.75	6.81	7.07	7.58	7.36	7.00	7.18
8/ 2/86	7.01	6.95	7.03	6.75	6.81	7.06	7.57	7.35	7.01	7.24
8/ 3/86	7.01	6.95	7.02	6.74	6.80	7.06	7.57	7.35	7.01	7.24
8/ 4/86	7.01	6.95	7.01	6.73	6.79	7.05	7.58	7.36	7.01	7.31
8/ 5/86	7.01	6.98	7.02	6.74	6.80	7.05	7.58	7.36	7.01	7.29
8/ 6/86	7.01	6.96	7.01	6.72	6.78	7.05	7.57	7.34	7.00	7.25
8/ 7/86	7.01	6.95	6.99	6.71	6.77	7.04	7.55	7.32	6.98	7.23
8/ 8/86	7.01	6.94	6.98	6.70	6.76	7.03	7.52	7.29	6.97	7.21
8/ 9/86	6.99	6.93	6.97	6.69	6.74	7.02	7.48	7.26	6.95	7.21
8/10/86	6.98	6.92	6.98	6.68	6.73	7.01	7.45	7.23	6.93	7.22
8/11/86	7.01	7.00	7.06	6.73	6.80	7.05	7.47	7.27	6.97	7.26
8/12/86	7.02	7.00	7.06	6.76	6.82	7.09	7.52	7.32	7.01	7.26
8/13/86	7.03	7.00	7.05	6.75	6.81	7.08	7.51	7.30	6.99	7.30
8/14/86	7.03	7.01	7.05	6.74	6.80	7.08	7.49	7.28	6.98	7.32
8/15/86	7.02	7.01	7.03	6.73	6.78	7.08	7.48	7.27	6.97	7.30
8/16/86	7.02	7.08	7.08	6.74	6.79	7.08	7.48	7.27	6.98	7.46
8/17/86	7.08	7.12	7.18	6.78	6.82	7.13	7.51	7.30	7.02	7.43
8/18/86	7.16	7.11	7.18	6.84	6.88	7.20	7.55	7.33	7.04	7.36
8/19/86	7.16	7.09	7.17	6.86	6.91	7.18	7.52	7.31	7.04	7.34
8/20/86	7.15	7.07	7.14	6.86	6.90	7.17	7.51	7.29	7.02	7.26
8/21/86	7.14	7.04	7.12	6.84	6.88	7.16	7.49	7.27	7.00	7.28
8/22/86	7.14	7.03	7.12	6.83	6.87	7.15	7.48	7.27	6.99	7.29
8/23/86	7.11	7.02	7.11	6.81	6.86	7.14	7.46	7.25	6.97	7.30
8/24/86	7.09	7.03	7.11	6.80	6.84	7.12	7.44	7.22	6.95	7.33
8/25/86	7.09	7.06	7.15	6.80	6.84	7.11	7.42	7.21	6.96	7.32
8/26/86	7.09	7.06	7.17	6.80	6.84	7.11	7.41	7.19	6.95	7.32
8/27/86	7.08	7.04	7.13	6.78	6.83	7.10	7.39	7.18	6.95	7.29
8/28/86	7.08	7.02	7.10	6.80	6.85	7.12	7.41	7.21	6.99	7.29
8/29/86	7.09	7.01	7.08	6.81	6.86	7.13	7.41	7.21	6.96	7.28
8/30/86	7.08	6.99	7.06	6.79	6.83	7.10	7.39	7.18	6.93	7.27
8/31/86	7.07	6.98	7.05	6.78	6.82	7.09	7.38	7.17	6.92	7.26
9/ 1/86	7.06	6.99	7.03	6.77	6.81	7.08	7.37	7.16	6.91	7.26
9/ 2/86	7.04	6.98	7.01	6.76	6.80	7.06	7.36	7.14	6.91	7.25
9/ 3/86	7.05	6.99	7.00	6.78	6.82	7.06	7.35	7.15	6.92	7.28
9/ 4/86	7.04	7.00	7.01	6.77	6.80	7.06	7.39	7.18	6.91	7.37
9/ 5/86	7.05	7.06	7.10	6.77	6.82	7.06	7.40	7.19	6.92	7.37
9/ 6/86	7.05	7.06	7.14	6.75	6.80	7.05	7.39	7.19	6.92	7.35
9/ 7/86	7.06	7.11	7.19	6.75	6.79	7.05	7.42	7.21	6.93	7.35
9/ 8/86	7.06	7.21	7.19	6.75	6.78	7.05	7.41	7.20	6.93	7.34
9/ 9/86	7.07	7.14	7.20	6.77	6.80	7.05	7.40	7.20	6.93	7.34
9/10/86	7.07	7.10	7.17	6.77	6.80	7.05	7.38	7.18	6.92	7.32
9/11/86	7.06	7.07	7.14	6.76	6.79	7.05	7.36	7.15	6.90	7.30
9/12/86	7.06	7.04	7.10	6.76	6.78	7.05	7.34	7.14	6.89	7.28
9/13/86	7.06	7.03	7.08	6.79	6.80	7.06	7.31	7.13	6.90	7.28
9/14/86	7.06	7.01	7.06	6.77	6.79	7.06	7.29	7.10	6.88	7.27
9/15/86	7.05	7.00	7.03	6.75	6.77	7.06	7.27	7.08	6.86	7.26

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
9/16/86	7.05	6.98	7.02	6.74	6.76	7.08	7.25	7.07	6.85	7.25
9/17/86	7.05	6.98	7.01	6.73	6.75	7.08	7.27	7.07	6.85	7.25
9/18/86	7.04	6.97	6.99	6.72	6.75	7.06	7.25	7.06	6.85	7.24
9/19/86	7.03	6.96	6.99	6.71	6.74	7.05	7.24	7.05	6.83	7.24
9/20/86	7.03	6.96	7.00	6.70	6.72	7.04	7.22	7.04	6.82	7.30
9/21/86	7.05	6.97	7.04	6.72	6.74	7.06	7.20	7.08	6.84	7.30
9/22/86	7.05	6.98	7.06	6.73	6.75	7.06	7.19	7.08	6.87	7.26
9/23/86	7.05	6.99	7.06	6.74	6.76	7.06	7.17	7.10	6.90	7.24
9/24/86	7.05	7.00	7.06	6.73	6.76	7.06	7.15	7.11	6.90	7.26
9/25/86	7.05	6.98	7.06	6.72	6.75	7.06	7.13	7.10	6.89	7.25
9/26/86	7.05	6.99	7.05	6.71	6.74	7.06	7.11	7.08	6.87	7.24
9/27/86	7.04	6.98	7.05	6.69	6.72	7.05	7.09	7.06	6.85	7.24
9/28/86	7.03	6.97	7.04	6.68	6.71	7.05	7.08	7.04	6.82	7.22
9/29/86	7.02	6.98	7.04	6.68	6.70	7.03	7.06	7.03	6.80	7.22
9/30/86	7.05	6.98	7.05	6.69	6.70	7.03	7.04	7.02	6.79	7.22
10/ 1/86	7.04	6.98	7.06	6.68	6.70	7.03		M 7.00	6.78	7.22
10/ 2/86	7.03	6.97	7.06	6.67	6.69	7.03		M 6.99	6.76	7.22
10/ 3/86	7.02	6.96	7.05	6.66	6.67	7.03		M 6.97	6.75	7.21
10/ 4/86	7.00	6.95	7.04	6.65	6.66	7.02		M 6.95	6.74	7.21
10/ 5/86	6.99	6.95	7.04	6.64	6.65	7.01		M 6.94	6.73	7.20
10/ 6/86	6.98	6.95	7.03	6.63	6.64	7.00		M 6.93	6.72	7.19
10/ 7/86	6.98	6.94	7.03	6.62	6.63	6.98		M 6.92	6.71	7.18
10/ 8/86	6.97	6.93	7.03	6.61	6.61	6.99		M 6.91	6.70	7.19
10/ 9/86	6.96	6.92	7.03	6.60	6.60	6.97		M 6.89	6.69	7.20
10/10/86	6.95	6.92	7.06	6.59	6.60	6.96		M 6.89	6.70	7.30
10/11/86	6.96	6.95	7.11	6.60	6.61	6.97		M 6.89	6.70	7.29
10/12/86	6.96	6.96	7.09	6.59	6.60	6.96		M 6.88	6.68	7.24
10/13/86	6.95	6.95	7.07	6.58	6.59	6.95		M 6.86	6.67	7.21
10/14/86	6.95	6.94	7.04	6.57	6.58	6.94		M 6.85	6.66	7.18
10/15/86	6.96	6.96	7.04	6.59	6.59	6.96		M 6.86	6.67	7.23
10/16/86	7.00	6.99	7.05	6.63	6.63	7.00		M 6.91	6.70	7.22
10/17/86	7.00	6.98	7.06	6.63	6.63	7.00		M 6.90	6.69	7.19
10/18/86	6.99	6.96	7.05	6.61	6.62	6.98		M 6.90	6.68	7.17
10/19/86	6.98	6.95	7.04	6.60	6.61	6.97		M 6.91	6.67	7.17
10/20/86	6.97	6.94	7.04	6.59	6.59	6.97		M 6.91	6.67	7.16
10/21/86	6.96	6.93	7.02	6.58	6.58	6.96		M 6.92	6.66	7.16
10/22/86	6.95	6.92	7.00	6.57	6.57	6.95		M 6.92	6.65	7.14
10/23/86	6.94	6.92	6.99	6.56	6.56	6.94		M 6.92	6.64	7.13
10/24/86	6.93	6.91	6.98	6.55	6.55	6.94		M 6.92	6.63	7.12
10/25/86	6.92	6.89	6.97	6.54	6.54	6.93		M 6.92	6.63	7.11
10/26/86	6.92	6.88	6.95	6.53	6.53	6.92		M 6.92	6.63	7.11
10/27/86	6.91	6.87	6.95	6.52	6.52	6.92		M 6.92	6.63	7.10
10/28/86	6.93	6.89	6.95	6.56	6.57	6.92		M 6.94	6.68	7.14
10/29/86	6.99	6.96	6.97	6.66	6.68	6.98		M 7.00	6.74	7.14
10/30/86	7.00	6.96	6.95	6.66	6.68	7.03		M 6.98	6.72	7.13
10/31/86	7.00	6.95	6.94	6.65	6.66	7.02		M 6.96	6.72	7.10
11/ 1/86	7.00	6.93	6.92	6.64	6.65	7.02		M 6.94	6.70	7.08
11/ 2/86	7.01	6.91	6.89	6.64	6.64	7.05		M 6.96	6.71	7.06

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
11/ 3/86	7.03	6.89	6.88	6.67	6.65	7.15	7.11	6.95	6.72	7.04
11/ 4/86	7.01	6.88	6.87	6.66	6.65	7.09	7.09	6.91	6.70	7.02
11/ 5/86	7.01	6.87	6.86	6.65	6.65	7.05	7.07	6.88	6.69	7.01
11/ 6/86	6.99	6.85	6.85	6.64	6.64	7.03	7.04	6.86	6.67	7.00
11/ 7/86	6.97	6.84	6.83	6.63	6.63	7.00	7.01	6.83	6.66	6.98
11/ 8/86	6.95	6.83	6.81	6.61	6.62	6.98	6.99	6.81	6.64	6.96
11/ 9/86	6.93	6.82	6.81	6.60	6.61	6.96	6.97	6.79	6.63	6.96
11/10/86	6.92	6.81	6.79	6.59	6.60	6.94	6.94	6.76	6.62	6.95
11/11/86	6.91	6.79	6.76	6.57	6.58	6.93	6.92	6.74	6.60	6.93
11/12/86	6.90	6.78	6.74	6.56	6.57	6.92	6.90	6.72	6.58	6.91
11/13/86	6.88	6.77	6.73	6.55	6.56	6.91	6.88	6.70	6.57	6.90
11/14/86	6.89	6.79	6.75	6.55	6.55	6.90	6.86	6.71	6.58	6.96
11/15/86	6.90	6.82	6.79	6.57	6.57	6.92	6.87	6.71	6.58	6.96
11/16/86	6.89	6.80	6.79	6.56	6.57	6.91	6.86	6.69	6.57	6.95
11/17/86	6.88	6.78	6.79	6.55	6.56	6.90	6.85	6.68	6.56	6.94
11/18/86	6.87	6.77	6.78	6.54	6.55	6.89	6.83	6.66	6.55	6.93
11/19/86	6.85	6.76	6.76	6.53	6.54	6.87	6.81	6.64	6.53	6.90
11/20/86	6.84	6.75	6.75	6.51	6.52	6.86	6.79	6.62	6.52	6.88
11/21/86	6.83	6.73	6.73	6.50	6.51	6.85	6.78	6.60	6.51	6.87
11/22/86	6.81	6.73	6.76	6.49	6.50	6.84	6.76	6.59	6.50	6.86
11/23/86	6.80	6.73	6.80	6.48	6.49	6.83	6.74	6.57	6.49	6.86
11/24/86	6.79	6.71	6.77	6.47	6.47	6.81	6.72	6.54	6.48	6.85
11/25/86	6.77	6.69	6.74	6.46	6.45	6.80	6.71	6.53	6.47	6.84
11/26/86	6.76	6.68	6.72	6.46	6.45	6.78	6.69	6.51	6.46	6.83
11/27/86	6.75	6.66	6.70	6.44	6.43	6.77	6.66	6.49	6.45	6.82
11/28/86	6.74	6.66	6.67	6.44	6.42	6.76	6.64	6.47	6.44	6.81
11/29/86	6.77	6.69	6.69	6.46	6.44	6.77	6.62	6.48	6.44	6.84
11/30/86	6.77	6.69	6.66	6.46	6.44	6.78	6.62	6.47	6.43	6.82
12/ 1/86	6.78	6.69	6.66	6.46	6.44	6.81	6.62	6.48	6.44	6.83
12/ 2/86	6.78	6.70	6.65	6.46	6.44	6.80	6.62	6.48	6.44	6.82
12/ 3/86	6.77	6.68	6.65	6.45	6.44	6.78	6.61	6.46	6.43	6.82
12/ 4/86	6.76	6.67	6.64	6.44	6.43	6.77	6.59	6.44	6.42	6.81
12/ 5/86	6.75	6.66	6.63	6.44	6.42	6.76	6.57	6.42	6.41	6.80
12/ 6/86	6.74	6.64	6.62	6.43	6.41	6.75	6.55	6.40	6.40	6.79
12/ 7/86	6.72	6.63	6.61	6.42	6.40	6.74	6.54	6.38	6.39	6.78
12/ 8/86	6.71	6.62	6.60	6.41	6.39	6.73	6.53	6.37	6.38	6.78
12/ 9/86	6.70	6.61	6.59	6.40	6.38	6.71	6.52	6.35	6.37	6.77
12/10/86	6.69	6.59	6.57	6.39	6.38	6.71	6.51	6.34	6.36	6.74
12/11/86	6.68	6.58	6.57	6.38	6.37	6.70	6.50	6.33	6.35	6.73
12/12/86	6.67	6.57	6.56	6.37	6.36	6.69	6.48	6.31	6.34	6.72
12/13/86	6.66	6.56	6.53	6.36	6.35	6.68	6.46	6.30	6.34	6.70
12/14/86	6.65	6.55	6.51	6.35	6.34	6.67	6.45	6.28	6.32	6.70
12/15/86	6.64	6.54	6.49	6.34	6.33	6.66	6.43	6.27	6.32	6.68
12/16/86	6.63	6.53	6.46	6.33	6.32	6.65	6.41	6.26	6.30	6.64
12/17/86	6.61	6.51	6.44	6.32	6.30	6.64	6.40	6.24	6.30	6.64
12/18/86	6.60	6.50	6.42	6.31	6.29	6.62	6.39	6.21	6.29	6.62
12/19/86	6.59	6.48	6.41	6.30	6.28	6.61	6.37	6.20	6.28	6.61
12/20/86	6.58	6.47	6.40	6.29	6.27	6.60	6.37	6.19	6.27	6.61

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
12/21/86	6.57	6.46	6.38	6.27	6.26	6.59	6.35	6.18	6.27	6.60
12/22/86	6.56	6.44	6.35	6.26	6.25	6.57	6.34	6.17	6.25	6.59
12/23/86	6.55	6.44	6.34	6.25	6.24	6.56	6.33	6.16	6.24	6.59
12/24/86	6.57	6.46	6.35	6.28	6.26	6.57	6.35	6.21	6.28	6.61
12/25/86	6.57	6.45	6.35	6.27	6.26	6.59	6.38	6.22	6.28	6.60
12/26/86	6.56	6.45	6.34	6.27	6.25	6.59	6.38	6.22	6.29	6.59
12/27/86	6.58	6.48	6.36	6.28	6.27	6.62	6.39	6.27	6.33	6.63
12/28/86	6.61	6.50	6.40	6.31	6.30	6.72	6.47	6.32	6.34	6.63
12/29/86	6.60	6.49	6.41	6.30	6.29	6.70	6.47	6.30	6.33	6.62
12/30/86	6.60	6.48	6.41	6.29	6.28	6.67	6.46	6.28	6.33	6.62
12/31/86	6.60	6.49	6.43	6.29	6.28	6.66	6.45	6.30	6.32	6.71
1/ 1/87	6.64	6.55	6.51	6.33	6.32	6.74	6.51	6.37	6.36	6.70
1/ 2/87	6.63	6.53	6.50	6.32	6.31	6.71	6.51	6.34	6.35	6.68
1/ 3/87	6.61	6.52	6.44	6.31	6.30	6.69	6.50	6.32	6.34	6.67
1/ 4/87	6.62	6.52	6.41	6.32	6.30	6.68	6.49	6.33	6.35	6.70
1/ 5/87	6.63	6.54	6.41	6.33	6.31	6.68	6.51	6.35	6.36	6.70
1/ 6/87	6.62	6.53	6.38	6.32	6.31	6.68	6.50	6.33	6.35	6.71
1/ 7/87	6.61	6.52	6.35	6.31	6.30	6.67	6.49	6.32	6.34	6.72
1/ 8/87	6.60	6.50	6.36	6.30	6.30	6.66	6.48	6.31	6.33	6.73
1/ 9/87	6.59	6.49	6.38	6.30	6.29	6.64	6.47	6.29	6.32	6.73
1/10/87	6.59	6.48	6.40	6.29	6.29	6.63	6.47	6.28	6.32	6.74
1/11/87	6.58	6.48	6.41	6.28	6.28	6.62	6.46	6.28	6.32	6.74
1/12/87	6.56	6.46	6.41	6.27	6.27	6.60	6.44	6.26	6.32	6.73
1/13/87	6.55	6.45	6.41	6.26	6.26	6.58	6.43	6.25	6.31	6.75
1/14/87	6.54	6.45	6.41	6.25	6.25	6.58	6.42	6.25	6.30	6.76
1/15/87	6.54	6.44	6.42	6.24	6.25	6.57	6.42	6.25	6.30	6.77
1/16/87	6.53	6.44	6.42	6.24	6.24	6.56	6.42	6.25	6.30	6.77
1/17/87	6.53	6.43	6.43	6.23	6.23	6.56	6.42	6.24	6.29	6.76
1/18/87	6.52	6.43	6.43	6.22	6.23	6.55	6.41	6.24	6.29	6.77
1/19/87	6.51	6.43	6.43	6.21	6.22	6.54	6.41	6.24	6.29	6.76
1/20/87	6.50	6.42	6.43	6.20	6.21	6.53	6.41	6.24	6.28	6.76
1/21/87	6.50	6.42	6.43	6.19	6.20	6.52	6.41	6.24	6.28	6.76
1/22/87	6.49	6.41	6.42	6.19	6.19	6.52	6.41	6.24	6.28	6.77
1/23/87	6.48	6.40	6.42	6.18	6.18	6.50	6.40	6.24	6.29	6.76
1/24/87	6.47	6.39	6.39	6.16	6.17	6.50	6.40	6.23	6.28	6.71
1/25/87	6.47	6.40	6.37	6.15	6.16	6.48	6.40	6.24	6.28	6.69
1/26/87	6.47	6.40	6.37	6.15	6.16	6.48	6.40	6.25	6.28	6.69
1/27/87	6.46	6.38	6.35	6.13	6.14	6.48	6.40	6.24	6.28	6.70
1/28/87	6.45	6.37	6.34	6.12	6.13	6.47	6.40	6.24	6.28	6.71
1/29/87	6.44	6.36	6.34	6.11	6.12	6.47	6.40	6.24	6.28	6.72
1/30/87	6.43	6.35	6.35	6.10	6.12	6.46	6.40	6.24	6.28	6.72
1/31/87	6.43	6.35	6.35	6.09	6.11	6.46	6.40	6.24	6.28	6.72
2/ 1/87	6.42	6.34	6.35	6.08	6.10	6.45	6.40	6.24	6.28	6.72
2/ 2/87	6.41	6.33	6.35	6.07	6.09	6.44	6.40	6.24	6.28	6.72
2/ 3/87	6.40	6.32	6.35	6.06	6.08	6.44	6.40	6.24	6.28	6.71
2/ 4/87	6.40	6.32	6.33	6.05	6.07	6.43	6.40	6.24	6.28	6.69
2/ 5/87	6.45	6.33	6.33	6.04	6.07	6.49	6.44	6.32	6.30	6.74
2/ 6/87	6.53	6.36	6.34	6.06	6.07	6.58	6.50	6.36	6.32	6.74

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
2/ 7/87	6.53	6.38	6.35	6.07	6.08	6.60	6.50	6.38	6.34	6.75
2/ 8/87	6.52	6.39	6.37	6.08	6.08	6.60	6.51	6.37	6.34	6.74
2/ 9/87	6.50	6.38	6.37	6.08	6.07	6.58	6.51	6.35	6.33	6.73
2/10/87	6.49	6.37	6.34	6.07	6.06	6.56	6.48	6.32	6.33	6.73
2/11/87	6.48	6.36	6.34	6.06	6.06	6.54	6.47	6.31	6.32	6.73
2/12/87	6.47	6.36	6.33	6.06	6.06	6.52	6.47	6.30	6.31	6.73
2/13/87	6.46	6.35	6.33	6.05	6.05	6.51	6.45	6.30	6.30	6.72
2/14/87	6.45	6.34	6.32	6.04	6.04	6.50	6.45	6.29	6.30	6.72
2/15/87	6.45	6.34	6.33	6.04	6.04	6.49	6.44	6.28	6.30	6.72
2/16/87	6.45	6.35	6.34	6.04	6.04	6.49	6.45	6.29	6.29	6.73
2/17/87	6.44	6.34	6.34	6.04	6.04	6.49	6.44	6.28	6.29	6.72
2/18/87	6.44	6.35	6.34	6.03	6.04	6.48	6.44	6.30	6.31	6.74
2/19/87	6.45	6.35	6.35	6.03	6.03	6.49	6.46	6.33	6.32	6.73
2/20/87	6.45	6.35	6.33	6.02	6.03	6.49	6.50	6.38	6.33	6.73
2/21/87	6.44	6.34	6.32	6.01	6.02	6.49	6.50	6.36	6.32	6.72
2/22/87	6.44	6.34	6.30	6.00	6.02	6.49	6.49	6.35	6.32	6.72
2/23/87	6.43	6.33	6.30	5.99	6.01	6.49	6.49	6.34	6.32	6.71
2/24/87	6.42	6.32	6.29	5.98	6.00	6.47	6.47	6.32	6.31	6.70
2/25/87	6.42	6.32	6.28	5.99	6.00	6.47	6.47	6.31	6.32	6.71
2/26/87	6.42	6.32	6.28	5.98	6.00	6.47	6.46	6.30	6.30	6.71
2/27/87	6.41	6.31	6.29	5.97	5.99	6.46	6.45	6.28	6.29	6.71
2/28/87	6.40	6.29	6.28	5.96	5.98	6.45	6.44	6.27	6.28	6.70
3/ 1/87	6.39	6.28	6.28	5.95	5.97	6.43	6.42	6.26	6.27	6.76
3/ 2/87	6.43	6.33	6.33	5.98	5.99	6.55	6.48	6.33	6.32	6.76
3/ 3/87	6.45	6.35	6.35	6.01	6.02	6.61	6.52	6.38	6.34	6.76
3/ 4/87	6.45	6.35	6.35	6.00	6.02	6.59	6.51	6.37	6.34	6.75
3/ 5/87	6.44	6.34	6.35	5.99	6.02	6.56	6.50	6.35	6.33	6.75
3/ 6/87	6.43	6.34	6.34	5.99	6.01	6.54	6.49	6.33	6.34	6.80
3/ 7/87	6.67	6.55	6.51	6.21	6.20	6.94	6.78	6.66	6.47	6.93
3/ 8/87	6.71	6.58	6.53	6.22	6.19	6.88	6.88	6.74	6.47	6.89
3/ 9/87	6.69	6.57	6.51	6.21	6.17	6.82	6.89	6.75	6.47	6.87
3/10/87	6.67	6.56	6.49	6.21	6.17	6.78	6.90	6.75	6.48	6.85
3/11/87	6.65	6.54	6.49	6.20	6.16	6.75	6.88	6.73	6.48	6.83
3/12/87	6.63	6.53	6.47	6.19	6.16	6.73	6.86	6.69	6.49	6.81
3/13/87	6.61	6.51	6.46	6.19	6.17	6.72	6.83	6.65	6.48	6.81
3/14/87	6.59	6.50	6.44	6.19	6.17	6.70	6.79	6.61	6.47	6.79
3/15/87	6.58	6.48	6.42	6.18	6.17	6.68	6.75	6.57	6.46	6.78
3/16/87	6.57	6.47	6.41	6.18	6.17	6.67	6.70	6.53	6.45	6.77
3/17/87	6.56	6.46	6.39	6.17	6.16	6.65	6.66	6.49	6.44	6.80
3/18/87	6.54	6.44	6.39	6.16	6.16	6.63	6.62	6.46	6.42	6.81
3/19/87	6.53	6.44	6.41	6.15	6.15	6.61	6.60	6.44	6.41	6.82
3/20/87	6.52	6.43	6.42	6.14	6.14	6.59	6.57	6.42	6.40	6.82
3/21/87	6.50	6.42	6.42	6.13	6.13	6.57	6.56	6.40	6.40	6.82
3/22/87	6.49	6.41	6.42	6.11	6.12	6.56	6.55	6.39	6.39	6.82
3/23/87	6.49	6.43	6.45	6.12	6.12	6.56	6.55	6.40	6.40	6.83
3/24/87	6.52	6.46	6.48	6.15	6.15	6.62	6.57	6.46	6.43	6.87
3/25/87	6.55	6.50	6.52	6.19	6.19	6.70	6.62	6.50	6.44	6.86
3/26/87	6.55	6.50	6.52	6.18	6.18	6.67	6.63	6.51	6.43	6.87

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
3/27/87	6.57	6.53	6.56	6.18	6.18	6.70	6.68	6.54	6.44	6.87
3/28/87	6.56	6.52	6.56	6.17	6.17	6.68	6.68	6.54	6.44	6.86
3/29/87	6.57	6.52	6.56	6.17	6.17	6.80	6.75	6.63	6.46	6.87
3/30/87	6.60	6.52	6.56	6.16	6.16	6.92	6.88	6.70	6.47	6.87
3/31/87	6.63	6.60	6.64	6.21	6.20	6.86	6.88	6.72	6.51	6.90
4/ 1/87	6.63	6.60	6.64	6.21	6.21	6.81	6.88	6.70	6.51	6.89
4/ 2/87	6.62	6.58	6.62	6.21	6.20	6.76	6.86	6.68	6.51	6.89
4/ 3/87	6.62	6.57	6.61	6.21	6.20	6.73	6.84	6.65	6.50	6.88
4/ 4/87	6.60	6.56	6.59	6.20	6.20	6.71	6.82	6.63	6.49	6.88
4/ 5/87	6.58	6.54	6.57	6.19	6.18	6.68	6.79	6.60	6.48	6.87
4/ 6/87	6.57	6.53	6.57	6.18	6.18	6.66	6.76	6.58	6.48	6.87
4/ 7/87	6.57	6.53	6.56	6.17	6.17	6.65	6.74	6.57	6.47	6.90
4/ 8/87	6.56	6.53	6.59	6.17	6.17	6.65	6.74	6.57	6.47	6.92
4/ 9/87	6.56	6.53	6.61	6.16	6.16	6.63	6.73	6.56	6.46	6.93
4/10/87	6.55	6.53	6.62	6.15	6.15	6.62	6.72	6.54	6.46	6.93
4/11/87	6.54	6.54	6.62	6.14	6.14	6.61	6.72	6.53	6.45	6.93
4/12/87	6.53	6.54	6.62	6.12	6.14	6.60	6.71	6.53	6.45	6.93
4/13/87	6.53	6.55	6.63	6.12	6.13	6.59	6.71	6.53	6.45	6.93
4/14/87	6.53	6.55	6.64	6.11	6.12	6.57	6.71	6.53	6.45	6.93
4/15/87	6.53	6.56	6.64	6.10	6.12	6.57	6.71	6.53	6.45	6.92
4/16/87	6.52	6.56	6.64	6.09	6.11	6.56	6.71	6.52	6.44	6.92
4/17/87	6.52	6.56	6.64	6.08	6.10	6.55	6.70	6.52	6.44	6.92
4/18/87	6.52	6.56	6.64	6.07	6.09	6.55	6.69	6.51	6.44	6.92
4/19/87	6.52	6.56	6.63	6.05	6.08	6.53	6.68	6.50	6.44	6.92
4/20/87	6.51	6.55	6.62	6.04	6.07	6.52	6.66	6.49	6.44	6.92
4/21/87	6.51	6.55	6.60	6.03	6.06	6.51	6.65	6.47	6.43	6.89
4/22/87	6.50	6.54	6.59	6.02	6.05	6.50	6.64	6.46	6.42	6.87
4/23/87	6.50	6.53	6.57	6.00	6.04	6.49	6.62	6.45	6.42	6.85
4/24/87	6.49	6.52	6.54	5.99	6.03	6.49	6.61	6.43	6.41	6.84
4/25/87	6.48	6.50	6.54	5.98	6.01	6.47	6.60	6.42	6.40	6.84
4/26/87	6.47	6.48	6.53	5.96	6.00	6.46	6.58	6.40	6.40	6.83
4/27/87	6.46	6.47	6.52	5.95	5.99	6.45	6.57	6.39	6.40	6.83
4/28/87	6.45	6.46	6.52	5.93	5.97	6.44	6.56	6.38	6.39	6.82
4/29/87	6.43	6.45	6.52	5.91	5.96	6.42	6.55	6.37	6.38	6.82
4/30/87	6.42	6.44	6.51	5.90	5.94	6.41	6.54	6.36	6.38	6.81
5/ 1/87	6.41	6.43	6.48	5.88	5.93	6.40	6.53	6.35	6.37	6.79
5/ 2/87	6.40	6.42	6.45	5.86	5.92	6.39	6.53	6.34	6.37	6.78
5/ 3/87	6.39	6.40	6.42	5.84	5.90	6.38	6.52	6.33	6.37	6.77
5/ 4/87	6.38	6.39	6.39	5.82	5.88	6.36	6.51	6.32	6.36	6.76
5/ 5/87	6.37	6.37	6.36	5.80	5.86	6.35	6.50	6.32	6.36	6.74
5/ 6/87	6.36	6.36	6.33	5.77	5.84	6.34	6.50	6.31	6.35	6.72
5/ 7/87	6.35	6.38	6.34	5.75	5.83	6.33	6.49	6.30	6.35	6.70
5/ 8/87	6.34	6.40	6.35	5.74	5.81	6.33	6.49	6.30	6.35	6.74
5/ 9/87	6.34	6.40	6.35	5.77	5.84	6.34	6.50	6.34	6.38	6.74
5/10/87	6.39	6.47	6.33	5.85	5.93	6.45	6.55	6.41	6.41	6.79
5/11/87	6.44	6.50	6.35	5.85	5.99	6.58	6.60	6.46	6.43	6.79
5/12/87	6.43	6.48	6.35	5.85	5.99	6.55	6.61	6.45	6.42	6.78
5/13/87	6.42	6.46	6.35	5.86	6.04	6.51	6.61	6.45	6.42	6.76

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1 USGS	NESRS2 USGS	NESRS3 WMD	NESRS4 USGS	NESRS5 USGS	L67EXE USGS	L67EXW USGS	L67XM ENP	L67XS ENP	G-618 USGS
5/14/87	6.44	6.45	6.34	5.88	6.01	6.61	6.62	6.51	6.44	6.75
5/15/87	6.47	6.44	6.32	5.89	5.99	6.68	6.68	6.56	6.45	6.75
5/16/87	6.47	6.43	6.31	5.93	6.00	6.66	6.74	6.58	6.47	6.74
5/17/87	6.45	6.41	6.29	5.92	6.02	6.63	6.75	6.56	6.46	6.73
5/18/87	6.44	6.39	6.28	5.91	6.00	6.59	6.73	6.54	6.46	6.70
5/19/87	6.43	6.38	6.27	5.91	5.99	6.56	6.71	6.52	6.45	6.69
5/20/87	6.42	6.36	6.25	5.90	5.97	6.54	6.69	6.50	6.44	6.69
5/21/87	6.41	6.34	6.24	5.89	5.96	6.51	6.66	6.46	6.44	6.68
5/22/87	6.40	6.33	6.21	5.87	5.95	6.48	6.63	6.43	6.43	6.67
5/23/87	6.38	6.31	6.19	5.86	5.93	6.46	6.60	6.40	6.41	6.66
5/24/87	6.37	6.29	6.15	5.84	5.92	6.44	6.57	6.37	6.40	6.65
5/25/87	6.36	6.27	6.11	5.83	5.91	6.42	6.55	6.35	6.39	6.64
5/26/87	6.34	6.26	6.02	5.81	5.89	6.41	6.53	6.33	6.38	6.63
5/27/87	6.33	6.24	5.80	5.80	5.88	6.39	6.51	6.31	6.37	6.62
5/28/87	6.32	6.23	5.66	5.78	5.87	6.38	6.50	6.29	6.36	6.62
5/29/87	6.31	6.22	5.59	5.76	5.86	6.35	6.48	6.28	6.35	6.61
5/30/87	6.30	6.22	5.50	5.74	5.85	6.34	6.47	6.27	6.34	6.61
5/31/87	6.29	6.21	5.39	5.71	5.83	6.32	6.46	6.26	6.33	6.60
6/ 1/87	6.30	6.18	5.27	5.80	5.83	6.53	6.55	6.44	6.44	6.59
6/ 2/87	6.37	6.16	5.22	5.94	6.01	6.80	6.77	6.59	6.48	6.60
6/ 3/87	6.37	6.14	5.28	5.94	6.04	6.72	6.74	6.55	6.47	6.60
6/ 4/87	6.37	6.12	5.31	5.93	6.02	6.67	6.71	6.52	6.45	6.59
6/ 5/87	6.37	6.10	5.27	5.91	6.00	6.62	6.68	6.48	6.44	6.58
6/ 6/87	6.36	6.07	5.20	5.89	5.98	6.58	6.64	6.45	6.43	6.57
6/ 7/87	6.36	6.07	5.33	5.89	5.97	6.55	6.61	6.43	6.43	6.56
6/ 8/87	6.36	6.06	5.28	5.89	5.97	6.54	6.59	6.41	6.42	6.56
6/ 9/87	6.34	6.06	5.22	5.86	5.97	6.51	6.56	6.39	6.41	6.58
6/10/87	6.34	6.07	5.18	5.84	5.96	6.49	6.55	6.36	6.40	6.55
6/11/87	6.32	6.05	5.15	5.80	5.95	6.46	6.52	6.33	6.38	6.52
6/12/87	6.31	6.03	5.14	5.76	5.94	6.43	6.50	6.30	6.36	6.50
6/13/87	6.29	6.00	5.09	5.72	5.92	6.41	6.46	6.27	6.34	6.47
6/14/87	6.28	5.96	5.07	5.67	5.90	6.38	6.43	6.25	6.33	6.44
6/15/87	6.29	5.93	5.13	5.75	5.87	6.52	6.47	6.34	6.43	6.43
6/16/87	6.31	5.89	5.20	5.95	6.06	6.72	6.54	6.36	6.43	6.42
6/17/87	6.30	5.85	5.18	5.94	6.08	6.65	6.50	6.31	6.39	6.37
6/18/87	6.28	5.81	5.15	5.92	6.05	6.59	6.47	6.28	6.36	6.35
6/19/87	6.27	5.77	5.12	5.90	6.02	6.55	6.44	6.25	6.34	6.33
6/20/87	6.26	5.73	5.08	5.87	6.00	6.50	6.41	6.22	6.32	6.30
6/21/87	6.24	5.67	5.04	5.84	5.98	6.45	6.37	6.19	6.29	6.27
6/22/87	6.22	5.62	5.03	5.81	5.96	6.42	6.35	6.17	6.27	6.23
6/23/87	6.22	5.63	5.00	5.88	5.94	6.42	6.38	6.24	6.35	6.28
6/24/87	6.26	5.72	4.88	5.98	6.06	6.49	6.47	6.29	6.38	6.28
6/25/87	6.26	5.70	4.94	6.00	6.09	6.47	6.44	6.27	6.39	6.28
6/26/87	6.31	5.87	5.16	6.10	6.15	6.51	6.47	6.32	6.40	6.34
6/27/87	6.34	6.01	5.36	6.11	6.20	6.60	6.49	6.32	6.39	6.32
6/28/87	6.32	6.04	5.84	6.09	6.17	6.58	6.47	6.32	6.40	6.35
6/29/87	6.34	6.08	5.78	6.11	6.18	6.57	6.51	6.37	6.41	6.42
6/30/87	6.39	6.17	5.59	6.15	6.20	6.58	6.55	6.37	6.41	6.41

Table D.5 Average Daily Water Levels (ft. NGVD), Northeast Shark River Slough,
from July 11, 1985 through July 11, 1987.

Date	NESRS1	NESRS2	NESRS3	NESRS4	NESRS5	L67EXE	L67EXW	L67XM	L67XS	G-618
	USGS	USGS	WMD	USGS	USGS	USGS	USGS	ENP	ENP	USGS
7/ 1/87	6.36	6.17	5.34	6.13	6.21	6.55	6.51	6.33	6.39	6.38
7/ 2/87	6.34	6.16	5.09	6.12	6.19	6.51	6.48	6.30	6.37	6.36
7/ 3/87	6.33	6.14	4.96	6.10	6.17	6.49	6.45	6.27	6.34	6.34
7/ 4/87	6.32	6.13	4.83	6.09	6.16	6.45	6.42	6.24	6.32	6.32
7/ 5/87	6.31	6.11	4.77	6.08	6.15	6.41	6.39	6.22	6.30	6.30
7/ 6/87	6.29	6.09	4.84	6.06	6.15	6.38	6.36	6.19	6.28	6.27
7/ 7/87	6.28	6.07	4.84	6.05	6.13	6.37	6.35	6.18	6.27	6.30
7/ 8/87	6.29	6.05	4.82	6.03	6.11	6.36	6.35	6.18	6.27	6.29
7/ 9/87	6.27	6.03	4.75	6.01	6.10	6.34	6.34	6.17	6.25	6.25
7/10/87	6.26	6.00	4.69	5.99	6.08	6.30	6.33	6.15	6.23	6.21
7/11/87	6.24	5.97	4.65	5.97	6.06	6.28	6.31	6.13	6.22	6.19

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
7/11/85	6.00	6.88	6.22	5.94	4.00	4.13	4.22		M	4.00
7/12/85	5.99	6.89	6.23	5.95	3.99	4.22	4.27		M	4.09
7/13/85	5.98	6.88	6.21	5.96	4.00	4.20	4.29		M	4.09
7/14/85	5.97	6.86	6.20	5.94	4.00	4.14	4.24		M	4.00
7/15/85	5.98	6.85	6.18	5.99	3.99	4.06	4.19		M	3.94
7/16/85	6.03	6.84	6.20	5.99	4.02	3.93	4.09		M	3.85
7/17/85	6.14	6.88	6.33	5.99	4.14	4.04	4.13		M 4.68	4.03
7/18/85	6.19	6.91	6.35	6.03	4.15	4.33	4.50		M 4.69	4.24
7/19/85	6.18	6.98	6.36	6.07	4.17	4.37	4.60		M 4.76	4.19
7/20/85	6.25	7.16	6.44	6.11	4.19	4.50	4.61		M 4.81	4.50
7/21/85	6.28	7.19	6.50	6.16	4.19	4.62	4.71		M 4.88	4.59
7/22/85	6.27	7.18	6.53	6.19	4.20	4.63	4.78		M 5.08	4.63
7/23/85	6.36	7.26	6.64	6.27	4.38	4.88	5.02		M 5.38	5.18
7/24/85	6.46	7.30	6.77	6.31	4.44	4.89	5.10		M 5.49	4.97
7/25/85	6.44	7.23	6.76	6.24	4.43	4.72	5.00		M 5.46	4.52
7/26/85	6.42	7.17	6.73	6.19	4.44	4.57	4.90		M 5.45	4.20
7/27/85	6.40	7.12	6.72	6.14	4.43	4.38	4.76		M 5.43	3.96
7/28/85	6.37	7.07	6.67	6.11	4.41	4.20	4.57		M 5.40	3.79
7/29/85	6.34	7.02	6.62	6.07	4.43	4.13	4.44		M 5.37	3.72
7/30/85	6.30	6.99	6.58	6.04	4.42	4.38	4.49		M 5.34	4.10
7/31/85	6.28	6.96	6.54	6.02	4.42	4.43	4.55		M 5.32	4.11
8/ 1/85	6.26	6.94	6.51	6.00	4.48	4.55	4.67		M 5.32	4.46
8/ 2/85	6.22	6.91	6.47	6.02	4.50	4.72	4.87		M 5.32	4.52
8/ 3/85	6.22	6.91	6.46	6.08	4.47	4.67	4.86		M 5.32	4.48
8/ 4/85	6.23	6.96	6.45	6.06	4.44	4.59	4.83		M 5.33	4.33
8/ 5/85	6.26	7.01	6.44	6.01	4.42	4.48	4.72		M 5.31	4.20
8/ 6/85	6.25	7.05	6.46	6.00	4.41	4.50	4.67		M 5.35	4.25
8/ 7/85	6.25	7.10	6.51	6.01	4.40	4.45	4.65		M 5.41	4.25
8/ 8/85	6.28	7.11	6.54	6.01	4.38	4.22	4.51		M 5.39	4.03
8/ 9/85	6.24	7.14	6.53	6.00	4.37	4.05	4.38		M 5.36	3.93
8/10/85	6.21	7.16	6.53	6.00	4.35	3.98	4.29		M 5.36	3.89
8/11/85	6.19	7.17	6.53	6.04	4.32	3.88	4.19		M 5.36	3.83
8/12/85	6.19	7.19	6.53	6.12	4.31	3.80	4.10		M 5.35	3.76
8/13/85	6.18	7.19	6.54	6.12	4.30	3.76	4.03		M 5.31	3.74
8/14/85	6.17	7.19	6.54	6.09	4.29	3.83	4.02		M 5.27	3.82
8/15/85	6.16	7.20	6.54	6.06	4.29	4.13	4.19		M 5.24	4.15
8/16/85	6.15	7.20	6.54	6.03	4.27	4.07	4.21		M 5.21	4.14
8/17/85	6.14	7.22	6.55	6.04	4.25	3.91	4.09		M 5.20	4.05
8/18/85	6.13	7.24	6.61	6.04	4.26	4.01	4.18		M 5.23	4.21
8/19/85	6.13	7.23	6.61	6.09	4.24	4.07	4.24		M 5.20	4.26
8/20/85	6.15	7.28	6.61	6.10	4.23	3.95	4.14		M 5.15	3.97
8/21/85	6.17	7.42	6.67	6.08	4.22	3.83	4.01		M 5.10	3.85
8/22/85	6.23	7.49	6.78	6.10	4.22	3.75	3.93		M 5.07	3.80
8/23/85	6.27	7.47	6.84	6.07	4.23	3.68	3.86		M 5.03	3.76
8/24/85	6.31	7.44	6.88	6.04	4.25	3.62	3.79		M 4.96	3.70
8/25/85	6.34	7.39	6.87	6.00	4.25	3.55	3.72		M 4.88	3.60
8/26/85	6.35	7.35	6.84	5.97	4.24	3.48	3.63		M 4.80	3.47
8/27/85	6.35	7.35	6.82	5.95	4.22	3.75	3.81		M 4.77	3.77

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
8/28/85	6.36	7.35	6.81	5.93	4.22	3.91	3.94		M 4.71	3.95
8/29/85	6.38	7.36	6.83	5.97	4.26	4.06	4.15		M 4.82	4.05
8/30/85	6.39	7.36	6.81	5.94	4.29	4.07	4.13		M 4.81	4.00
8/31/85	6.38	7.35	6.79	5.92	4.28	4.20	4.18		M 4.74	4.05
9/ 1/85	6.37	7.33	6.77	5.89	4.27	4.36	4.30		M 4.66	4.17
9/ 2/85	6.36	7.32	6.76	5.86	4.27	4.46	4.40		M 4.62	4.28
9/ 3/85	6.36	7.32	6.74	5.85	4.28	4.31	4.35		M 4.59	4.15
9/ 4/85	6.36	7.33	6.75	5.82	4.29	4.22	4.26		M 4.58	4.05
9/ 5/85	6.40	7.35	6.79	5.80	4.34	4.13	4.18		M 4.56	4.01
9/ 6/85	6.42	7.36	6.81	5.79	4.40	3.96	4.06		M 4.53	3.83
9/ 7/85	6.42	7.35	6.79	5.75	4.40	3.85	3.97		M 4.48	3.74
9/ 8/85	6.40	7.39	6.79	5.75	4.39	3.95	4.03		M 4.62	4.00
9/ 9/85	6.42	7.43	6.81	5.76	4.39	4.31	4.39		M 4.86	4.26
9/10/85	6.43	7.43	6.82	5.74	4.38	4.40	4.43		M 4.87	4.30
9/11/85	6.43	7.41	6.81	5.74	4.37	4.57	4.61		M 4.85	4.40
9/12/85	6.47	7.40	6.83	5.76	4.37	4.39	4.60		M 4.91	4.20
9/13/85	6.46	7.39	6.84	5.76	4.37	4.39	4.49		M 4.87	4.15
9/14/85	6.46	7.39	6.85	5.78	4.39	4.48	4.54		M 4.86	4.24
9/15/85	6.47	7.38	6.84	5.80	4.39	4.53	4.57		M 4.85	4.29
9/16/85	6.54	7.35	6.84	5.85	4.41	4.69	4.70		M 4.94	4.60
9/17/85	6.67	7.36	6.88	5.90	4.47	4.70		M 4.93	5.12	4.79
9/18/85	6.68	7.38	6.93	5.96	4.53	4.69		M 5.01	5.24	4.72
9/19/85	6.68	7.38	6.93	6.06	4.55	4.60		M 5.00	5.26	4.45
9/20/85	6.68	7.38	6.93	6.13	4.56	4.61		M 4.99	5.29	4.39
9/21/85	6.68	7.38	6.92	6.16	4.57	4.46		M 4.93	5.27	4.18
9/22/85	6.65	7.38	6.89	6.18	4.58	4.40		M 4.86	5.24	4.10
9/23/85	6.62	7.40	6.87	6.18	4.60	4.37		M 4.79	5.20	4.05
9/24/85	6.59	7.40	6.85	6.16	4.58	4.47		M 4.73	5.15	4.08
9/25/85	6.57	7.41	6.83	6.15	4.56	4.46		M 4.69	5.09	4.10
9/26/85	6.54	7.43	6.82	6.12	4.54	4.44		M 4.64	5.04	4.08 E
9/27/85	6.53	7.45	6.81	6.10	4.52	4.45		M 4.62	4.99	4.09 E
9/28/85	6.52	7.48	6.81	6.08	4.51	4.43		M 4.63	4.96	4.24 E
9/29/85	6.50	7.50	6.82	6.08	4.49	4.53		M 4.75	4.98	4.39 E
9/30/85	6.50	7.53	6.85	6.07	4.48	4.55	4.65	4.78	5.01	4.36 E
10/ 1/85	6.51	7.54	6.89	6.07	4.47	4.47	4.57	4.75	5.01	4.33 E
10/ 2/85	6.51	7.54	6.89	6.05	4.46	4.37	4.47	4.68	4.96	4.33 E
10/ 3/85	6.51	7.63	6.92	6.04	4.45	4.30	4.38		M 4.90	4.30 E
10/ 4/85	6.57	7.65	7.06	6.06	4.51	4.46	4.52		M 4.91	4.38 E
10/ 5/85	6.73	7.65	7.13	6.12	4.59	4.67	4.76		M 4.96	4.51 E
10/ 6/85	6.74	7.62	7.13	6.12	4.58	4.67	4.70		M	4.28 E
10/ 7/85	6.75	7.59	7.11	6.14	4.56	4.68	4.71	4.78		M 4.28 E
10/ 8/85	6.71	7.56	7.06	6.15	4.56	4.59	4.68	4.76		M 4.19 E
10/ 9/85	6.69	7.53	7.03	6.16	4.55	4.43	4.56	4.71		M 4.16 E
10/10/85	6.67	7.51	7.00	6.15	4.55	4.33	4.46	4.64		M 4.15 E
10/11/85	6.66	7.50	7.01	6.14	4.54	4.19	4.34	4.57		M 4.13 E
10/12/85	6.66	7.50	7.03	6.13	4.55	4.08	4.23	4.49		M 4.10 E
10/13/85	6.67	7.49	7.00	6.12	4.56	4.00	4.13	4.42		M 4.02 E
10/14/85	6.64	7.48	6.96	6.10	4.55	3.81	4.00	4.33		M 3.85 E

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
10/15/85	6.62	7.47	6.94	6.09	4.54	3.66	3.90	4.19	M	3.67 E
10/16/85	6.60	7.46	6.92	6.08	4.54	3.59	3.83	4.15	4.61	3.41 E
10/17/85	6.58	7.46	6.90	6.07	4.53	3.58	3.80	4.10	4.56	3.40
10/18/85	6.56	7.46	6.89	6.05	4.52	3.59	3.81	4.11	4.51	3.42
10/19/85	6.56	7.49	6.87	6.04	4.52	3.63	3.85	4.13	4.49	3.55
10/20/85	6.58	7.53	6.90	6.05	4.53	3.92	4.14	4.43	4.73	3.87
10/21/85	6.57	7.53	6.90	6.05	4.53	3.64	3.93	4.29	4.68	3.49
10/22/85	6.56	7.53	6.90	6.03	4.52	3.41	3.71	4.14	4.62	3.31
10/23/85	6.54	7.52	6.90	6.01	4.51	3.34	3.60	4.02	4.57	3.21
10/24/85	6.55	7.52	6.90	6.01	4.51	3.49	3.75	4.08	4.57	3.32
10/25/85	6.55	7.50	6.89	6.01	4.50	3.46	3.68	4.03	4.50	3.30
10/26/85	6.54	7.49	6.88	5.99	4.49	3.47	3.64	3.97	4.41	3.28
10/27/85	6.56	7.55	6.92	6.01	4.56	3.64	3.78	4.04	4.43	3.49
10/28/85	6.59	7.61	6.96	6.03	4.61	3.60	3.78	4.03	4.46	3.48
10/29/85	6.59	7.60	6.97	6.02	4.58	3.48	3.65	3.95	4.41	3.35
10/30/85	6.59	7.58	6.97	6.00	4.56	3.50	3.66	3.91	4.33	3.31
10/31/85	6.59	7.54	6.95	5.98	4.53	3.45	3.61	3.87	4.26	3.29
11/ 1/85	6.58	7.52	6.94	5.96	4.51	3.47	3.61	3.84	4.18	3.39
11/ 2/85	6.58	7.50	6.93	5.93	4.50	3.46	3.59	3.81	4.09	3.37
11/ 3/85	6.57	7.49	6.92	5.92	4.50	3.44	3.58	3.79	4.04	3.35
11/ 4/85	6.60	7.52	6.93	5.95	4.55	3.56	3.75	3.94	4.06	3.47
11/ 5/85	6.59	7.51		M 5.93	4.53	3.38	3.57	3.78	4.00	3.40
11/ 6/85	6.58	7.49		M 5.91	4.51	3.38	3.47	3.69	3.92	3.36
11/ 7/85	6.57	7.47		M 5.88	4.49	3.53	3.57	3.68	3.87	3.44
11/ 8/85	6.55	7.46		M 5.84	4.48	3.53	3.57	3.67	3.81	3.45
11/ 9/85	6.55	7.44		M 5.81	4.47	3.51	3.55	3.65	3.77	3.43
11/10/85	6.54	7.43		M 5.79	4.46	3.55	3.56	3.63	3.73	3.44
11/11/85	6.53	7.43		M 5.76	4.45	3.56	3.57	3.62	3.72	3.46
11/12/85	6.52	7.42		M 5.73	4.45	3.51	3.55	3.62	3.70	3.43
11/13/85	6.51	7.41		M 5.68	4.44	3.33	3.42	3.51	3.63	3.28
11/14/85	6.50	7.41		M 5.64	4.42	3.30	3.36	3.44	3.55	3.24
11/15/85	6.49	7.40		M 5.59	4.41	3.38	3.39	3.45	3.52	3.30
11/16/85	6.47	7.38		M 5.54	4.41	3.54		M 3.62	3.65	3.43
11/17/85	6.46	7.37		M 5.48	4.40	3.50		M 3.59	3.61	3.41
11/18/85	6.45	7.35		M 5.43	4.38	3.40		M 3.53	3.55	3.26
11/19/85	6.49	7.38		M 5.48	4.41	3.46		M 3.66	3.62	3.31
11/20/85	6.58	7.45		M 5.78	4.53	3.83		M 4.35	4.64	3.83
11/21/85	6.55	7.44	6.84	5.81	4.52	3.44	3.74	4.16	4.59	3.33
11/22/85	6.55	7.42	6.83	5.81	4.52	3.48	3.68	4.04	4.53	3.47
11/23/85	6.54	7.39	6.83	5.81	4.51	3.43	3.62	3.95	4.46	3.44
11/24/85	6.53	7.37	6.82	5.80	4.50	3.36	3.54	3.86	4.37	3.39
11/25/85	6.52	7.34	6.80	5.79	4.48	3.32	3.48	3.77	4.26	3.32
11/26/85	6.51	7.31	6.78	5.76	4.47	3.40	3.51	3.73	4.16	3.30 E
11/27/85	6.49	7.29	6.76	5.74	4.46	3.43	3.52	3.71	4.07	3.34 E
11/28/85	6.48	7.27	6.74	5.72	4.44	3.40	3.50	3.68	3.99	3.29 E
11/29/85	6.46	7.26	6.72	5.69	4.43	3.36	3.46	3.63	3.92	3.27 E
11/30/85	6.45	7.24	6.71	5.66	4.42	3.32	3.43	3.57	3.84	3.25 E
12/ 1/85	6.43	7.22	6.69	5.62	4.41	3.29	3.36	3.51	3.76	3.23 E

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
12/ 2/85	6.41	7.21	6.67	5.58	4.40	3.30	3.38	3.49	3.70	3.21 E
12/ 3/85	6.40	7.19	6.65	5.54	4.38	3.46	3.47	3.52	3.67	3.29 E
12/ 4/85	6.39	7.18	6.63	5.53	4.38	3.47	3.49	3.54	3.65	3.33 E
12/ 5/85	6.39	7.18	6.63	5.59	4.38	3.53	3.56	3.67	3.78	3.42 E
12/ 6/85	6.38	7.17	6.62	5.66	4.38	3.60	3.65	3.78	4.09	3.48 E
12/ 7/85	6.36	7.16	6.60	5.64	4.37	3.27	3.39	3.61	4.04	3.13 E
12/ 8/85	6.35	7.15	6.58	5.61	4.35	3.08	3.22	3.45	3.93	2.98 E
12/ 9/85	6.34	7.14	6.57	5.59	4.34	3.03	3.14	3.35	3.83	2.94 E
12/10/85	6.33	7.13	6.55	5.56	4.33	3.15	3.20	3.33	3.73	3.05 E
12/11/85	6.32	7.13	6.54	5.52	4.32	3.17	3.21	3.32	3.66	3.08 E
12/12/85	6.30	7.12	6.52	5.48	4.31	3.16	3.21	3.30	3.59	3.08 E
12/13/85	6.29	7.12	6.51	5.43	4.30	3.15	3.20	3.27	3.54	3.08 E
12/14/85	6.28	7.12	6.50	5.43	4.29	3.15	3.19	3.27	3.50	3.08 E
12/15/85	6.27	7.11	6.49	5.38	4.28	3.15	3.18	3.25	3.48	3.10 E
12/16/85	6.26	7.11	6.47	5.35	4.27	3.15	3.17	3.26	3.47	3.09 E
12/17/85	6.26	7.12	6.47	5.40	4.26	3.21	3.24	3.31	3.50	3.14
12/18/85	6.25	7.12	6.46	5.38	4.25	3.22	3.25	3.30	3.51	3.17
12/19/85	6.23	7.11	6.43	5.30	4.24	3.19	3.22	3.26	3.47	3.13
12/20/85	6.22	7.10	6.41	5.24	4.22	3.15	3.18	3.22	3.42	3.09
12/21/85	6.21	7.10	6.40	5.19	4.20	3.11	3.13	3.18	3.36	3.05
12/22/85	6.20	7.09	6.39	5.12	4.19	3.09	3.12	3.15	3.32	3.05
12/23/85	6.19	7.08	6.38	5.08	4.18	3.05	3.09	3.12	M	3.00
12/24/85	6.19	7.09	6.37	5.10	4.20	3.07	3.11	3.19	M	3.05
12/25/85	6.21	7.09	6.38	5.21	4.21	3.44	3.46	3.54	3.81	3.35
12/26/85	6.20	7.08	6.36	5.15	4.20	3.40	3.44	3.49	3.75	3.34
12/27/85	6.18	7.07	6.35	5.09	4.18	3.33	3.37	3.43	3.64	3.27
12/28/85	6.18	7.07	6.37	5.20	4.19	3.33	3.34	3.41	3.69	3.24
12/29/85	6.19	7.09	6.38	5.36	4.20	3.38	3.39	3.48	3.79	3.28
12/30/85	6.18	7.09	6.37	5.28	4.19	3.36	3.38	3.44	3.70	3.28
12/31/85	6.17	7.08	6.35	5.22	4.18	3.32	3.35	3.40	3.61	3.27
1/ 1/86	6.16	7.08	6.34	5.17	4.17	3.29	3.31	3.35	3.55	3.24
1/ 2/86	6.16	7.08	6.34	5.12	4.15	3.26	3.28	3.32	3.49	3.20
1/ 3/86	6.18	7.07	6.34	5.07	4.15	3.23	3.24	3.27	3.44	3.15
1/ 4/86	6.17	7.06	6.33	5.03	4.14	3.19	3.21	3.23	3.41	3.12
1/ 5/86	6.15	7.06	6.32	4.97	4.13	3.15	3.17	3.18	3.35	3.10
1/ 6/86	6.13	7.05	6.30	4.91	4.11	3.10	3.13	3.14	3.29	3.07
1/ 7/86	6.12	7.08	6.30	4.87	4.11	3.21	3.16	3.17	3.26	3.35
1/ 8/86	6.13	7.12	6.31	5.01	4.13	3.52	3.41	3.55	3.81	3.58
1/ 9/86	6.18	7.18	6.38	5.38	4.17	3.50	3.63	3.95	4.57	3.53
1/10/86	6.21	7.25	6.45	5.58	4.20	3.49	3.64	4.04	4.68	3.57
1/11/86	6.22	7.26	6.48	5.60	4.20	3.48	3.63	4.08	4.79	3.45
1/12/86	6.22	7.23	6.48	5.59	4.20	3.32	3.56	4.00	4.75	3.25
1/13/86	6.22	7.21	6.49	5.60	4.19	3.27	3.52	3.93	4.72	3.21
1/14/86	6.22	7.18	6.48	5.55	4.18	3.23	3.41	3.76	4.58	3.25
1/15/86	6.21	7.15	6.47	5.52	4.17	3.32	3.40	3.68	4.44	3.27
1/16/86	6.19	7.14	6.48	5.48	4.17	3.37	3.47	3.67	4.32	3.31
1/17/86	6.19	7.13	6.47	5.45	4.16	3.32	3.38	3.59	M	3.25
1/18/86	6.18	7.12	6.46	5.42	4.15	3.41	3.43	3.59	M	3.37

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
1/19/86	6.18	7.11	6.45	5.39	4.14	3.45	3.48	3.62	M	3.41
1/20/86	6.17	7.10	6.44	5.35	4.14	3.42	3.47	3.58	M	3.41
1/21/86	6.16	7.08	6.42	5.30	4.13	3.36	3.41	3.52	M	3.34
1/22/86	6.15	7.08	6.41	5.24	4.11	3.32	3.37	3.46	M	3.30
1/23/86	6.14	7.07	6.39	5.20	4.10	3.30	3.35	3.42	M	3.27
1/24/86	6.13	7.06	6.38	5.15	4.10	3.29	3.32	3.38	M	3.26
1/25/86	6.13	7.06	6.37	5.10	4.09	3.30	3.32	3.37	M	3.25
1/26/86	6.12	7.05	6.35	5.08	4.08	3.30	3.31	3.36	M	3.24
1/27/86	6.11	7.05	6.34	5.06	4.07	3.27	3.29	3.32	M	3.20
1/28/86	6.09	7.04	6.32	4.98	4.06	3.21	3.23	3.25	M	3.14
1/29/86	6.08	7.03	6.31	4.91	4.05	3.15	3.16	3.20	3.37	3.03
1/30/86	6.07	7.03	6.29	4.85	4.04	3.11	3.11	3.15	3.31	3.04
1/31/86	6.06	7.03	6.28	4.79	4.03	3.10	3.09	3.12	3.26	3.06
2/ 1/86	6.05	7.04	6.27	4.73	4.02	3.07	3.07	3.09	3.21	3.03
2/ 2/86	6.04	7.04	6.26	4.68	4.01	3.05	3.04	3.07	3.17	3.01
2/ 3/86	6.03	7.04	6.25	4.63	4.00	3.03	3.02	3.04	3.13	2.99
2/ 4/86	6.01	7.04	6.23	4.57	3.99	2.99	2.98	3.01	3.08	2.97
2/ 5/86	6.00	7.04	6.22	4.51	3.98	2.95	2.94	2.96	3.05	2.93
2/ 6/86	6.00	7.04	6.21	4.45	3.97	2.91	2.89	2.92	3.00	2.90
2/ 7/86	5.98	7.06	6.21	4.41	3.96	2.88	2.85	2.89	2.95	2.86
2/ 8/86	5.97	7.08	6.23	4.36	3.95	2.85	2.82	2.85	2.91	2.84
2/ 9/86	5.95	7.08	6.23	4.30	3.94	2.82	2.79	2.82	2.86	2.82
2/10/86	5.94	7.08	6.22	4.25	3.93	2.78	2.76	2.78	2.83	2.76
2/11/86	5.93	7.07	6.20	4.20	3.92	2.76	2.72	2.75	2.78	2.74
2/12/86	5.92	7.07	6.20	4.19	3.91	2.77	2.74	2.76	2.76	2.79
2/13/86	5.92	7.07	6.19	4.18	3.90	2.77	2.74	2.75	2.74	2.78
2/14/86	5.91	7.06	6.18	4.11	3.89	2.75	2.71	2.71	2.71	2.75
2/15/86	5.90	7.06	6.17	4.06	3.88	2.73	2.69	2.68	2.68	2.73
2/16/86	5.89	7.05	6.16	4.00	3.87	2.70	2.66	2.65	2.64	2.70
2/17/86	5.88	7.04	6.15	3.95	3.86	2.68	2.63	2.62	2.61	2.68
2/18/86	5.94	7.11	6.18	4.36	3.87	2.83	2.85	2.80	2.78	2.88
2/19/86	5.96	7.14	6.21	4.78	3.89	3.12	3.11	3.10	3.12	3.10
2/20/86	5.96	7.13	6.21	4.70	3.88	3.07	3.07	3.07	3.12	3.03
2/21/86	5.95	7.12	6.23	4.61	3.87	3.02	3.01	3.03	3.07	3.00
2/22/86	5.94	7.11	6.22	4.53	3.86	2.98	2.97	2.98	3.02	2.96
2/23/86	5.94	7.11	6.21	4.45	3.85	2.94	2.93	2.94	2.96	2.93
2/24/86	5.93	7.10	6.20	4.38	3.84	2.89	2.87	2.89	2.90	2.89
2/25/86	5.92	7.08	6.19	4.28	3.83	2.84	2.83	2.83	2.83	2.84
2/26/86	5.90	7.07	6.18	4.16	3.81	2.78	2.77	2.75	2.75	2.77
2/27/86	5.89	7.06	6.17	4.06	3.80	2.76	2.74	2.70	2.70	2.74
2/28/86	5.88	7.05	6.16	3.98	3.79	2.78	2.74	2.69	2.65	2.76
3/ 1/86	5.87	7.05	6.16	3.91	3.79	2.79	2.77	2.69	2.63	2.80
3/ 2/86	5.86	7.03	6.14	3.84	3.77	2.78	2.75	2.67	2.60	2.74
3/ 3/86	5.85	7.03	6.13	3.78	3.76	2.75	2.72	2.64	2.57	2.67
3/ 4/86	5.84	7.02	6.12	3.73	3.75	2.77	2.71	2.63	2.55	2.72
3/ 5/86	5.83	7.01	6.12	3.70	3.74	2.78	2.73	2.63	2.54	2.77
3/ 6/86	5.82	7.00	6.10	3.66	3.73	2.78	2.74	2.64	2.53	2.78
3/ 7/86	5.80	6.99	6.09	3.62	3.72	2.78	2.75	2.63	2.52	2.80

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
3/ 8/86	5.79	6.98	6.08	3.57	3.70	2.78	2.74	2.61	2.50	2.78
3/ 9/86	5.78	6.97	6.07	3.55	3.69	2.78	2.72	2.60	2.47	2.79
3/10/86	5.82	7.03	6.08	4.49	3.69	3.28	3.23	3.35	3.36	3.42
3/11/86	5.89	7.13	6.16	4.92	3.71	2.98	3.07	3.28	3.97	2.96
3/12/86	5.88	7.14	6.16	4.90	3.77	3.22	3.23	3.34	4.26	3.20
3/13/86	5.91	7.19	6.22	4.88	3.81	3.42	3.41	3.48	4.22	3.38
3/14/86	5.94	7.21	6.28	5.15	3.83	3.33	3.40	3.51	4.19	3.40
3/15/86	5.94	7.17	6.28	5.10	3.83	3.20	3.26	3.42	4.07	3.27
3/16/86	5.93	7.15	6.30	5.05	3.83	3.23	3.26	3.41	4.05	3.31
3/17/86	5.93	7.13	6.30	5.01	3.83	3.36	3.32	3.45	4.15	3.37
3/18/86	5.94	7.12	6.30	4.94	3.82	3.41	3.43	3.50	4.05	3.43
3/19/86	5.92	7.10	6.29	4.87	3.80	3.25	3.28	3.41	3.94	3.19
3/20/86	5.91	7.09	6.29	4.79	3.78	3.30	3.31	3.39	3.81	3.26
3/21/86	5.97	7.15	6.36	5.00	3.83	3.42	3.46	3.51	3.98	3.42
3/22/86	5.99	7.16	6.38	5.07	3.83	3.21	3.33	3.46	4.00	3.30
3/23/86	5.98	7.13	6.36	4.97	3.82	3.05	3.13	3.31	3.80	3.14
3/24/86	5.97	7.12	6.34	4.88	3.80	3.07	3.08	3.21	3.64	3.08
3/25/86	5.96	7.11	6.33	4.81	3.79	3.23	3.19	3.26	3.54	3.15
3/26/86	6.05	7.13	6.41	5.31	3.84	3.80	3.98	3.98	4.35	3.85
3/27/86	6.11	7.14	6.47	5.80	3.87	3.54	3.77	4.23	4.73	3.28
3/28/86	6.15	7.13	6.45	5.81	3.86	3.20	3.44	3.96	4.65	2.97
3/29/86	6.14	7.12	6.43	5.77	3.85	3.05	3.25	3.71	4.51	2.94
3/30/86	6.12	7.11	6.41	5.76	3.85	2.99	3.16	3.55	4.37	2.92
3/31/86	6.11	7.10	6.40	5.77	3.85	3.05	3.17	3.47	4.27	2.93
4/ 1/86	6.10	7.09	6.38	5.74	3.86	3.17	3.23	3.45	4.14	2.96
4/ 2/86	6.09	7.09	6.36	5.70	3.87	3.18	3.21	3.40	4.02	2.95
4/ 3/86	6.07	7.08	6.34	5.65	3.87	3.18	3.18	3.35	3.88	2.93
4/ 4/86	6.05	7.07	6.32	5.60	3.87	3.22	3.18	3.33	3.76	3.01
4/ 5/86	6.04	7.07	6.30	5.55	3.87	3.31	3.25	3.34	3.67	3.24
4/ 6/86	6.02	7.09	6.28	5.48	3.87	3.32	3.25	3.33	3.59	3.26
4/ 7/86	6.01	7.11	6.26	5.43	3.86	3.38	3.30	3.34	3.54	3.38
4/ 8/86	6.00	7.13	6.25	5.36	3.85	3.40	3.31	3.35	3.51	3.40
4/ 9/86	5.99	7.13	6.23	5.30	3.85	3.38	3.30	3.33	3.46	3.40
4/10/86	5.96	7.13	6.21	5.21	3.84	3.35	3.26	3.28	3.41	3.38
4/11/86	5.95	7.13	6.20	5.10	3.82	3.25	3.17	3.21	3.34	3.26
4/12/86	5.94	7.13	6.19	4.99	3.81	3.14	3.08	3.14	3.26	3.13
4/13/86	5.98	7.18	6.24	5.19	3.86	3.58	3.63	3.79	3.87	3.68
4/14/86	6.00	7.21	6.26	5.28	3.88	3.34	3.40	3.73	4.03	3.28
4/15/86	6.00	7.20	6.27	5.21	3.86	3.42	3.41	3.59	3.90	3.34
4/16/86	5.99	7.19	6.28	5.13	3.84	3.41	3.37	3.52	3.78	3.34
4/17/86	5.98	7.18	6.29	5.04	3.83	3.35	3.34	3.43	3.66	3.29
4/18/86	5.96	7.16	6.30	4.93	3.81	3.28	3.28	3.34	3.54	3.22
4/19/86	5.96	7.15	6.30	4.82	3.80	3.21	3.22	3.27	3.43	3.16
4/20/86	5.95	7.14	6.30	4.72	3.78	3.15	3.16	3.20	3.35	3.11
4/21/86	5.94	7.13	6.30	4.64	3.77	3.09	3.10	3.14	3.28	3.07
4/22/86	5.94	7.12	6.30	4.52	3.75	3.03	3.01	3.06	3.18	3.00
4/23/86	5.92	7.10	6.29	4.40	3.74	2.96	2.95	2.97	3.06	2.92
4/24/86	5.91	7.09	6.28	4.28	3.72	2.88	2.86	2.89	2.95	2.88

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
4/25/86	5.90	7.09	6.27	4.18	3.70	2.84	2.81	2.83	2.86	2.84
4/26/86	5.89	7.08	6.26	4.08	3.69	2.91	2.84	2.82	2.82	2.85
4/27/86	5.88	7.08	6.25	4.00	3.67	2.91	2.84	2.81	2.77	2.85
4/28/86	5.87	7.07	6.24	3.93	3.66	2.91	2.83	2.78	2.73	2.90
4/29/86	5.86	7.07	6.22	3.86	3.64	3.03	2.91	2.80	2.69	3.15
4/30/86	5.85	7.06	6.20	3.79	3.62	3.07	2.96	2.83	2.67	3.21
5/ 1/86	5.84	7.06	6.19	3.72	3.61	3.13	3.00	2.84	2.65	3.31
5/ 2/86	5.82	7.05	6.17	3.66	3.59	3.13	3.01	2.84	2.63	3.33
5/ 3/86	5.81	7.05	6.16	3.60	3.57	3.13	3.00	2.82	2.60	3.34
5/ 4/86	5.81	7.05	6.17	3.55	3.56	3.19	3.04	2.87	2.59	3.38
5/ 5/86	5.81	7.05	6.19	3.56	3.55	3.28	3.16	2.99	2.72	3.47
5/ 6/86	5.82	7.05	6.18	3.56	3.53	3.30	3.19	3.03	2.88	3.49
5/ 7/86	5.84	7.05	6.17	3.56	3.51	3.36	3.26	3.13	M	3.55
5/ 8/86	5.84	7.04	6.15	3.60	3.49	3.38	3.27	3.14	M	3.56
5/ 9/86	5.85	7.03	6.13	3.94	3.48	3.50	3.37	3.21	M	3.69
5/10/86	5.93	7.03	6.14	4.09	3.47	3.51	3.39	3.23	M	3.72
5/11/86	5.92	7.02	6.12	4.08	3.45	3.49	3.38	3.20	3.05	3.72
5/12/86	5.90	7.01	6.10	3.99	3.43	3.45	3.34	3.17	3.01	3.68
5/13/86	5.89	7.00	6.09	3.90	3.43	3.41	3.31	3.13	2.95	3.63
5/14/86	5.87	7.01	6.08	3.80	3.43	3.35	3.25	3.07	2.87	3.58
5/15/86	5.87	7.00	6.07	3.73	3.42	3.31	3.20	3.01	2.80	3.53
5/16/86	5.86	7.00	6.06	3.77	3.43	3.29	3.18	2.98	2.76	3.51
5/17/86	5.84	6.99	6.04	3.72	3.41	3.26	3.16	2.96	2.72	3.48
5/18/86	5.83	6.98	6.03	3.63	3.40	3.22	3.12	2.92	2.69	3.44
5/19/86	5.81	6.97	6.01	3.55	3.38	3.17	3.07	2.88	2.65	3.39
5/20/86	5.80	6.96	6.00	3.49	3.37	3.48	3.36	3.09	2.81	3.75
5/21/86	5.78	6.95	5.99	3.49	3.35	3.72	3.62	3.41	3.21	3.92
5/22/86	5.77	6.96	5.98	3.51	3.33	3.76	3.60	3.46	3.22	3.94
5/23/86	5.76	6.99	5.97	3.60	3.31	3.84	3.71	3.56	3.54	3.98
5/24/86	5.75	6.99	5.96	3.73	3.29	3.90	3.81	3.70	4.08	4.01
5/25/86	5.73	6.98	5.94	3.84	3.27	3.80	3.75	3.67	3.97	3.91
5/26/86	5.71	6.98	5.92	3.84	3.24	3.68	3.65	3.55	3.80	3.80
5/27/86	5.69	6.96	5.90	3.78	3.22	3.57	3.54	3.44	3.59	3.68
5/28/86	5.67	6.95	5.88	3.67	3.18	3.51	3.46	3.33	3.38	3.61
5/29/86	5.64	6.93	5.85	3.58	3.14	3.43	3.38	3.23	3.21	3.54
5/30/86	5.61	6.91	5.83	3.49	3.10	3.39	3.33	3.15	3.08	3.56
5/31/86	5.59	6.89	5.80	3.41	3.06	3.36	3.29	3.09	2.97	3.55
6/ 1/86	5.56	6.87	5.78	3.35	3.04	3.32	3.24	3.03	2.87	3.52
6/ 2/86	5.55	6.90	5.78	3.52	3.03	3.29	3.21	2.99	2.79	3.48
6/ 3/86	5.55	6.93	5.80	4.05	3.01	3.28	3.18	2.96	2.74	3.48
6/ 4/86	5.52	6.91	5.79	4.02	2.97	3.28	3.16	2.94	2.68	3.47
6/ 5/86	5.49	6.89	5.76	3.89	2.94	3.35	3.25	3.00	2.64	3.48
6/ 6/86	5.47	6.87	5.74	3.75	2.90	3.34	3.26	3.03	2.61	3.45
6/ 7/86	5.45	6.87	5.73	3.76	3.03	3.78	3.70	3.77	3.37	4.24
6/ 8/86	5.60	6.88	5.82	4.86	3.21	4.19	4.16	4.38	4.67	4.43
6/ 9/86	5.80	6.92	6.01	5.40	3.39	4.17	4.33	4.43	4.80	4.20
6/10/86	5.82	6.95	6.07	5.31	3.49	4.02	4.16	4.28	4.60	3.95
6/11/86	5.87	6.99	6.07	5.24	3.49	3.97	4.08	4.16	4.40	3.97

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
6/12/86	6.05	7.06	6.15	5.36	3.58	3.93	4.03	4.14	4.26	3.92
6/13/86	6.16	7.13	6.22	5.71	3.72	4.18	4.29	4.58	4.54	4.08
6/14/86	6.22	7.16	6.30	5.75	3.77	4.30	4.51	4.68	4.86	4.15
6/15/86	6.26	7.21	6.38	5.89	3.85	4.24	4.37	4.60	4.81	4.11
6/16/86	6.32	7.23	6.46	6.07	3.89	4.26	4.40	4.59	4.92	4.15
6/17/86	6.33	7.21	6.47	6.18	3.91	4.24	4.39	4.57	4.95	4.16
6/18/86	6.30	7.16	6.50	6.16	3.90	4.12	4.31	4.51	4.94	3.94
6/19/86	6.29	7.20	6.59	6.13	3.97	4.17	4.27	4.47	4.89	4.07
6/20/86	6.35	7.28	6.71	6.15	4.03	4.21	4.37	4.50	4.91	4.05
6/21/86	6.43	7.24	6.74	6.22	4.07	4.20	4.64	4.68	5.01	4.10
6/22/86	6.40	7.18	6.71	6.21	4.09	4.58	4.83	4.97	5.15	4.57
6/23/86	6.41	7.15	6.71	6.25	4.11	4.48	4.70	4.90	5.18	4.35
6/24/86	6.40	7.13	6.72	6.22	4.13	4.28	4.57	4.85	5.21	4.13
6/25/86	6.38	7.09	6.68	6.19	4.15	4.09	4.38	4.75	5.21	3.74
6/26/86	6.37	7.07	6.65	6.16	4.17	4.17	4.49	4.81	5.31	3.85
6/27/86	6.35	7.05	6.63	6.15	4.19	4.32	4.63	4.96	5.41	4.10
6/28/86	6.36	7.05	6.62	6.14	4.21	4.19	4.53	4.96	5.38	3.83
6/29/86	6.34	7.06	6.59	6.13	4.23	4.10	4.41	4.90	5.36	3.67
6/30/86	6.33	7.08	6.57	6.12	4.30	3.98	4.28	4.83	5.34	3.57
7/ 1/86	6.31	7.11	6.55	6.10	4.34	3.91	4.20	4.75	5.32	3.45
7/ 2/86	6.29	7.12	6.53	6.08	4.34	3.91	4.17	4.68	5.31	3.45
7/ 3/86	6.27	7.14	6.53	6.07	4.32	3.93	4.18	4.64	5.29	3.62
7/ 4/86	6.28	7.19	6.54	6.07	4.30	3.99	4.22	4.64	5.28	3.86
7/ 5/86	6.27	7.29	6.54	6.13	4.29	3.99	4.29	4.63	5.30	3.87
7/ 6/86	6.27	7.36	6.56	6.16	4.31	4.04	4.32	4.72	5.36	3.88
7/ 7/86	6.27	7.37	6.60	6.12	4.33	4.08	4.39	4.76	5.35	3.92
7/ 8/86	6.27	7.38	6.63	6.07	4.30	4.02	4.33	4.77	5.33	3.84
7/ 9/86	6.27	7.47	6.67	6.11	4.28	4.20	4.57	4.81	5.30	3.87
7/10/86	6.28	7.57	6.70	6.11	4.26	4.30	4.67	4.94	5.32	4.02
7/11/86	6.34	7.63	6.77	6.08	4.24	4.15	4.50	4.89	5.32	3.91
7/12/86	6.39	7.65	6.83	6.09	4.25	4.04	4.36	4.83	5.30	3.82
7/13/86	6.39	7.67	6.89	6.07	4.23	3.97	4.26	4.72	5.27	3.76
7/14/86	6.40	7.69	6.94	6.05	4.20	3.95	4.20	4.64	5.24	3.83
7/15/86	6.40	7.71	6.97	6.03	4.18	3.90	4.14	4.53	5.18	3.74
7/16/86	6.41	7.71	6.99	6.00	4.16	3.84	4.06	4.43	5.11	3.69
7/17/86	6.42	7.72	7.01	5.98	4.14	3.83	4.02	4.32	5.02	3.80
7/18/86	6.44	7.73	7.03	6.02	4.12	3.89	4.06	4.29	4.95	3.85
7/19/86	6.47	7.74	7.05	6.18	4.12	3.98	4.19	4.36	4.99	3.87
7/20/86	6.52	7.76	7.12	6.17	4.11	4.05	4.31	4.52	5.08	3.80
7/21/86	6.57	7.80	7.15	6.18	4.11	4.07	4.32	4.55	5.13	3.93
7/22/86	6.58	7.86	7.14	6.14	4.10	4.02	4.22	4.46	5.07	3.88
7/23/86	6.57	7.85	7.16	6.12	4.10	3.95	4.17	4.38	4.99	3.91
7/24/86	6.57	7.82	7.17	6.12	4.12	4.20	4.40	4.51	4.99	4.13
7/25/86	6.57	7.84	7.19	6.11	4.14	4.08	4.36	4.56	5.02	3.91
7/26/86	6.64	7.88	7.27	6.11	4.18	4.23	4.35	4.49	5.00	4.05
7/27/86	6.71	7.90	7.32	6.11	4.24	4.20	4.33	4.43	4.95	3.99
7/28/86	6.72	7.89	7.30	6.10	4.28	4.10	4.33	4.45	4.98	3.88
7/29/86	6.71	7.88	7.27	6.10	4.31	3.79	4.12	4.38	4.99	3.46

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
7/30/86	6.70	7.85	7.25	6.09	4.33	3.63	3.92	4.25	4.92	3.29
7/31/86	6.68	7.82		M 6.06	4.35	3.55	3.80	4.12	4.83	3.19
8/ 1/86	6.71	7.82		M 6.09	4.36	3.51	3.74	4.07	4.75	3.14
8/ 2/86	6.70	7.85		M 6.08	4.38	3.46	3.66	3.96	4.66	3.11
8/ 3/86	6.70	7.83		M 6.07	4.40	3.40	3.58	3.83	4.53	3.06
8/ 4/86	6.69	7.82		M 6.05	4.45	3.75	4.14	4.17	4.63	3.46
8/ 5/86	6.69	7.82		M 6.05	4.47	4.02	4.33	4.52	4.91	3.69
8/ 6/86	6.68	7.80		M 6.03	4.46	3.74	4.02	4.36	4.81	3.40
8/ 7/86	6.66	7.76		M 6.01	4.45	3.59	3.84	4.19	4.70	3.27
8/ 8/86	6.65	7.72		M 5.99	4.44	3.47	3.70	4.03	4.61	3.18
8/ 9/86	6.63	7.69		M 5.96	4.42	3.48	3.66	3.92	4.54	3.26
8/10/86	6.61	7.66		M 5.94	4.41	3.50	3.64	3.84	4.40	3.33
8/11/86	6.66	7.74		M 5.93	4.42	3.53	3.68	3.88	4.42	3.33
8/12/86	6.69	7.77		M 5.92	4.42	3.47	3.61	3.78	4.32	3.19
8/13/86	6.68	7.74		M 5.90	4.42	3.43	3.56	3.70	4.21	3.14
8/14/86	6.67	7.71		M 5.88	4.41	3.40	3.51	3.63	4.08	3.13
8/15/86	6.66	7.68		M 5.87	4.40	3.37	3.46	3.58	3.98	3.08
8/16/86	6.67	7.68		M 5.88	4.41	3.55	3.50	3.66	4.03	3.23
8/17/86	6.71	7.72		M 5.96	4.42	3.93	3.95	3.99	4.46	3.72
8/18/86	6.76	7.76		M 6.07	4.47	3.94	4.04	4.20	4.68	3.66
8/19/86	6.76	7.75		M 6.10	4.53	3.95	4.06	4.27	4.83	3.63
8/20/86	6.75	7.72		M 6.12	4.53	3.84	3.98	4.23	4.82	3.55
8/21/86	6.72	7.71		M 6.12	4.53	3.82	3.91	4.13	4.75	3.45
8/22/86	6.71	7.70		M 6.13	4.52	3.79	3.91	4.14	4.72	3.53
8/23/86	6.69	7.67		M 6.13	4.51	3.69	3.79	4.03	4.62	3.34
8/24/86	6.67	7.64		M 6.11	4.49	3.80	3.92	4.12	4.57	3.27
8/25/86	6.66	7.62		M 6.12	4.49	3.72	3.87	4.23	4.58	3.25
8/26/86	6.67	7.60		M 6.11	4.48	3.67	3.78	4.10	4.48	3.24
8/27/86	6.67	7.60		M 6.15	4.51	3.61	3.75	4.03	4.50	3.19
8/28/86	6.69	7.61	7.09	6.21	4.60	3.55	3.68	3.95	4.47	3.14
8/29/86	6.68	7.61	7.07	6.19	4.56	3.50	3.61	3.85	4.37	3.08
8/30/86	6.65	7.60	7.04	6.15	4.53	3.50	3.56	2.76	4.25	3.02
8/31/86	6.63	7.60	7.02	6.14	4.51	3.65	3.79	4.04	4.52	3.23
9/ 1/86	6.62	7.59	7.01	6.12	4.50	3.52	3.64	3.89	4.39	3.12
9/ 2/86	6.61	7.58	7.00	6.09	4.49	3.54	3.57	3.75	4.25	3.22
9/ 3/86	6.61	7.62	7.02	6.07	4.47	3.88	3.74	3.80	4.24	3.85
9/ 4/86	6.62	7.68	7.04	6.07	4.47	4.31	4.10	4.08	4.32	4.17
9/ 5/86	6.63	7.67	7.03	6.12	4.47	4.60	4.73	4.76	4.98	4.70
9/ 6/86	6.62	7.66	7.05	6.13	4.51	4.37	4.56	4.72	4.92	4.17
9/ 7/86	6.63	7.67	7.08	6.16	M 4.32	4.46	4.68	4.87	4.07	
9/ 8/86	6.62	7.65	7.06	6.16	M 4.32	4.47	4.65	4.82	4.21	
9/ 9/86	6.62	7.64	7.05	6.17	M 4.17	4.40	4.60	4.80	3.94	
9/10/86	6.61	7.62	7.03	6.14	M 3.97	4.18	4.49	4.73	3.63	
9/11/86	6.60	7.60	7.01	6.10	M 3.81	4.01	4.34	4.66	3.45	
9/12/86	6.58	7.58	6.99	6.06	M 3.71	3.88	4.21	4.57	3.35	
9/13/86	6.58	7.55	6.99	6.04	M 3.65	3.81	4.11	4.55	3.32	
9/14/86	6.57	7.52	6.97	6.04	M 3.61	3.75	4.03	4.52	3.28	
9/15/86	6.55	7.50	6.94	6.01	M 3.57	3.69	3.96	4.42	3.25	

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
9/16/86	6.54	7.48	6.92	5.99	M	3.56	3.67	3.91	4.37	3.36
9/17/86	6.53	7.50	6.93	5.97	4.37	3.64	3.73	3.91	4.30	3.54
9/18/86	6.53	7.49	6.92	5.94	4.36	3.64	3.73	3.92	4.27	3.56
9/19/86	6.52	7.47	6.90	5.91	4.34	3.65	3.72	3.88	4.22	3.55
9/20/86	6.50	7.47	6.89	5.88	4.34	3.60	3.68	3.84	4.17	3.52
9/21/86	6.52	7.49	6.94	5.90	4.45	3.82	3.92	3.96	4.20	3.77
9/22/86	6.55	7.51	6.96	5.90	4.47	4.02	4.11	4.18	4.28	4.01
9/23/86	6.58	7.54	6.99	5.90	4.49	3.95	4.06	4.20	4.35	3.91
9/24/86	6.59	7.53	6.98	5.88	4.49	3.88	4.00	4.15	4.33	3.86
9/25/86	6.58	7.51	6.97	5.85	4.49	3.80	3.89	4.07	4.25	3.78
9/26/86	6.56	7.50	6.95	5.82	4.46	3.80	3.85	3.99	4.16	3.85
9/27/86	6.54	7.47	6.93	5.78	4.43	3.75	3.80	3.93	4.09	3.79
9/28/86	6.52	7.44	6.92	5.72	4.41	3.75	3.80	3.90	4.02	3.84
9/29/86	6.50	7.42	6.91	5.68	4.39	3.74	3.77	3.86	3.96	3.83
9/30/86	6.48	7.43	6.90	5.63	4.36	3.80	3.81	3.87	3.92	3.91
10/ 1/86	6.47	7.41	6.88	5.58	4.34	3.80	3.80	3.85	3.88	3.91
10/ 2/86	6.45	7.40	6.86	5.53	4.32	3.70	3.72	3.78	3.82	3.81
10/ 3/86	6.44	7.38	6.84	5.47	4.31	3.72	3.71	3.75	3.77	3.90
10/ 4/86	6.43	7.37	6.82	5.43	4.29	3.67	3.70	3.74	3.72	3.85
10/ 5/86	6.42	7.36	6.81	5.42	4.33	3.68	3.75	3.79	3.70	3.76
10/ 6/86	6.41	7.36	6.79	5.44	4.35	3.66	3.73	3.81	3.70	3.76
10/ 7/86	6.40	7.35	6.79	5.36	4.31	3.60	3.64	3.73	3.65	3.70
10/ 8/86	6.39	7.35	6.77	5.29	4.29	3.53	3.59	3.66	3.59	3.63
10/ 9/86	6.37	7.34	6.75	5.22	4.26	3.48	3.57	3.61	3.53	3.55
10/10/86	6.37	7.35	6.75	5.27	4.25	3.40	3.48	3.56	3.48	3.37
10/11/86	6.38	7.37	6.75	5.40	4.24	3.37	3.44	3.49	3.41	3.29
10/12/86	6.36	7.36	6.74	5.30	4.22	3.39	3.42	3.46	3.37	3.30
10/13/86	6.35	7.34	6.72	5.20	4.20	3.20	3.31	3.36	3.31	3.23
10/14/86	6.34	7.33	6.71	5.11	4.19	3.07	3.19	3.26	3.23	3.09
10/15/86	6.36	7.34	6.73	5.22	4.20	3.34	3.38	3.40	3.67	3.22
10/16/86	6.37	7.36	6.76	5.41	4.20	3.78	3.90	4.03	4.67	3.66
10/17/86	6.36	7.37	6.74	5.37	4.18	3.53	3.73	3.98	4.59	3.42
10/18/86	6.35	7.38	6.73	5.31	4.17	3.46	3.65	3.90	4.48	3.32
10/19/86	6.33	7.41	6.72	5.25	4.15	3.48	3.63	3.86	4.38	3.36
10/20/86	6.32	7.44	6.71	5.19	4.14	3.55	3.66	3.84	4.27	3.45
10/21/86	6.31	7.45	6.70	5.13	4.13	3.40	3.56	3.75	4.15	3.37
10/22/86	6.30	7.45	6.70	5.07	4.11	3.33	3.50	3.68	4.01	3.29
10/23/86	6.30	7.45	6.71	5.01	4.10	3.24	3.44	3.64	3.86	3.17
10/24/86	6.30	7.44	6.71	4.95	4.09	3.16	3.36	3.55	3.73	3.07
10/25/86	6.29	7.43	6.71	4.88	4.07	3.09	3.28	3.47	3.61	3.01
10/26/86	6.29	7.42	6.71	4.82	4.06	3.06	3.21	3.40	3.50	2.98
10/27/86	6.28	7.41	6.28	4.76	4.05	3.08	3.20	3.34	3.41	2.97
10/28/86	6.32	7.41	6.32	5.01	4.14	3.02	3.17	3.35	3.52	2.92
10/29/86	6.39	7.43	6.83	5.61	4.27	3.37	3.47	3.56	3.96	3.18
10/30/86	6.40	7.43	6.82	5.64	4.23	3.42	3.54	3.62	3.98	3.34
10/31/86	6.40	7.41	6.81	5.62	4.22	3.31	3.45	3.57	3.90	3.24
11/ 1/86	6.40	7.40	6.80	5.59	4.21	3.29	3.45	3.56	3.83	3.24
11/ 2/86	6.39	7.38	6.80	5.56	4.19	3.34	3.44	3.54	3.75	3.24

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
11/ 3/86	6.39	7.35	6.81	5.52	4.18	3.32	3.43	3.52	3.69	3.25
11/ 4/86	6.39	7.34	6.80	5.48	4.16	3.30	3.41	3.48	3.63	3.21
11/ 5/86	6.39	7.32	6.78	5.43	4.15	3.27	3.37	3.44	3.57	3.17
11/ 6/86	6.38	7.30	6.76	5.38	4.14	3.23	3.29	3.37	3.49	3.14
11/ 7/86	6.37	7.28	6.75	5.32	4.13	3.21	3.26	3.33	3.43	3.14
11/ 8/86	6.36	7.27	6.73	5.26	4.11	3.22	3.25	3.29	3.38	3.13
11/ 9/86	6.35	7.25	6.71	5.26	4.10	3.22	3.24	3.28	3.37	3.14
11/10/86	6.35	7.24	6.69	5.21	4.10	3.15	3.17	3.23	3.33	3.12
11/11/86	6.34	7.22	6.68	5.14	4.08	3.07	3.11	3.17	3.26	3.05
11/12/86	6.33	7.21	6.66	5.07	4.07	3.05	3.08	3.14	3.20	3.03
11/13/86	6.31	7.20	6.65	5.00	4.06	3.12	3.12	3.15	3.16	3.10
11/14/86	6.31	7.23	6.64	5.01	4.06	3.22	3.21	3.22	3.17	3.18
11/15/86	6.32	7.25	6.64	5.17	4.07	3.31	3.32	3.33	3.26	3.28
11/16/86	6.31	7.24	6.63	5.12	4.06	3.37	3.36	3.33	3.27	3.32
11/17/86	6.30	7.23	6.61	5.07	4.06	3.36	3.35	3.31	3.26	3.33
11/18/86	6.29	7.22	6.60	5.01	4.05	3.31	3.31	3.28	3.23	3.32
11/19/86	6.28	7.21	6.58	4.95	4.04	3.31	3.30	3.27	3.20	3.31
11/20/86	6.26	7.19	6.56	4.88	4.04	3.30	3.29	3.24	3.17	3.31
11/21/86	6.25	7.18	6.55	4.83	4.03	3.21	3.21	3.19	3.12	3.25
11/22/86	6.24	7.17	6.53	4.79	4.02	3.20	3.21	3.20	3.11	3.23
11/23/86	6.23	7.16	6.52	4.74	4.01	3.20	3.21	3.21	3.15	3.19
11/24/86	6.21	7.15	6.51	4.68	4.00	3.13	3.15	3.16	3.10	3.12
11/25/86	6.20	7.14	6.50	4.62	4.00	3.14	3.14	3.14	3.05	3.19
11/26/86	6.19	7.13	6.48	4.57	3.99	3.11	3.12	3.11	3.01	3.15
11/27/86	6.18	7.13	6.47	4.52	3.98	3.09	3.09	3.09	2.98	3.16
11/28/86	6.17	7.12	6.45	4.52	3.97	3.15	3.14	3.14	2.97	3.21
11/29/86	6.19	7.13	6.47	4.84	3.97	3.46	3.44	3.38	3.25	3.57
11/30/86	6.18	7.12	6.46	4.84	3.97	3.39	3.42	3.39	3.37	3.30
12/ 1/86	6.18	7.15	6.45	5.12	4.00	3.40	3.47	3.54	3.44	3.28
12/ 2/86	6.19	7.15	6.45	5.24	4.02	3.50	3.55	3.61	3.51	3.49
12/ 3/86	6.17	7.14	6.44	5.19	4.00	3.46	3.48	3.52	3.54	3.42
12/ 4/86	6.16	7.13	6.43	5.13	3.99	3.43	3.45	3.44	3.46	3.39
12/ 5/86	6.15	7.12	6.42	5.09	3.99	3.41	3.42	3.40	3.42	3.38
12/ 6/86	6.14	7.11	6.41	5.04	3.98	3.39	3.39	3.37	3.39	3.37
12/ 7/86	6.12	7.10	6.40	4.98	3.97	3.36	3.36	3.34	3.36	3.35
12/ 8/86	6.11	7.10	6.39	4.93	3.96	3.33	3.31	3.30	3.32	3.33
12/ 9/86	6.10	7.09	6.37	4.88	3.96	3.34	3.30	3.28	3.28	3.37
12/10/86	6.09	7.08	6.36	4.82	3.95	3.32	3.28	3.25	3.24	3.36
12/11/86	6.08	7.08	6.36	4.78	3.94	3.29	3.26	3.22	3.19	3.35
12/12/86	6.07	7.07	6.34	4.72	3.93	3.27	3.23	3.18	3.15	3.34
12/13/86	6.06	7.06	6.34	4.66	3.92	3.24	3.20	3.15	3.10	3.31
12/14/86	6.05	7.05	6.32	4.60	3.91	3.22	3.17	3.12	3.06	3.29
12/15/86	6.04	7.04	6.31	4.55	3.90	3.17	3.12	3.08	3.03	3.23
12/16/86	6.03	7.04	6.30	4.49	3.89	3.12	3.07	3.03	2.98	3.16
12/17/86	6.02	7.03	6.29	4.44	3.88	3.10	3.06	3.00	2.94	3.15
12/18/86	6.02	7.03	6.27	4.41	M	3.09	3.05	2.98	2.91	3.15
12/19/86	6.02	7.02	6.26	4.36	M	3.08	3.04	2.96	2.88	3.13
12/20/86	6.01	7.01	6.25	4.32	M	3.06	3.01	2.93	2.85	3.10

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
12/21/86	6.00	7.01	6.24	4.28	M	3.03	2.97	2.89	2.82	3.09
12/22/86	5.98	7.00	6.23	4.23	M	3.00	2.94	2.86	2.78	3.06
12/23/86	5.98	6.99	6.22	4.20	M	3.00	2.95	2.89	2.79	3.03
12/24/86	6.00	7.04	6.25	4.43	M	3.54	3.58	3.69	3.53	3.54
12/25/86	6.00	7.07	6.25	4.67	M	3.25	3.43	3.65	3.84	3.34
12/26/86	5.99	7.07	6.25	4.71	M	3.06	3.21	3.44	3.70	3.17
12/27/86	6.02	7.10	6.28	4.95	M	3.05	3.14	3.40	3.70	2.93
12/28/86	6.04	7.12	6.32	5.24	M	3.12	3.24	3.45	3.87	3.14
12/29/86	6.04	7.11	6.31	5.22	M	3.19	3.22	3.38	3.78	3.16
12/30/86	6.03	7.10	6.30	5.17	M	3.29	3.31	3.40	3.70	3.24
12/31/86	6.03	7.11	6.33	5.19	3.89	3.38	3.38	3.56	3.70	3.32
1/ 1/87	6.07	7.13	6.37	5.54	3.95	3.54	3.83	4.07	4.63	3.57
1/ 2/87	6.05	7.12	6.36	5.52	3.93	3.18	3.43	3.84	4.59	2.95
1/ 3/87	6.05	7.10	6.36	5.50	3.92	3.13	3.31	3.70	4.51	2.86
1/ 4/87	6.05	7.13	6.37	5.56	3.92	3.23	3.40	3.74	4.54	2.91
1/ 5/87	6.05	7.13	6.38	5.66	3.92	3.24	3.49	3.88	4.71	2.97
1/ 6/87	6.05	7.11	6.38	5.63	3.90	3.19	3.36	3.75	4.63	2.86
1/ 7/87	6.04	7.10	6.37	5.60	3.89	3.24	3.36	3.68	4.54	2.90
1/ 8/87	6.04	7.09	6.37	5.58	3.88	3.43	3.48	3.70	4.44	3.32
1/ 9/87	6.03	7.08	6.36	5.55	3.87	3.51	3.56	3.72	4.37	3.43
1/10/87	6.03	7.07	6.36	5.52	3.86	3.43	3.51	3.70	4.30	3.30
1/11/87	6.02	7.06	6.35	5.48	3.85	3.34	3.42	3.64	4.22	3.18
1/12/87	6.01	7.05	6.34	5.43	3.83	3.35	3.40	3.58	4.11	3.25
1/13/87	6.00	7.04	6.33	5.37	3.82	3.39	3.42	3.57	4.02	3.30
1/14/87	5.99	7.03	6.32	5.32	3.81	3.40	3.43	3.55	3.95	3.31
1/15/87	5.99	7.02	6.31	5.27	3.81	3.38	3.41	3.53	3.89	3.29
1/16/87	5.99	7.02	6.30	5.22	3.80	3.34	3.38	3.48	3.82	3.26
1/17/87	5.98	7.01	6.30	5.16	3.79	3.32	3.35	3.45	3.76	3.23
1/18/87	5.97	7.01	6.29	5.10	3.78	3.30	3.32	3.41	3.70	3.22
1/19/87	5.97	7.00	6.28	5.04	3.77	3.27	3.29	3.38	3.64	3.20
1/20/87	5.96	6.99	6.27	4.97	3.76	3.24	3.24	3.33	3.57	3.16
1/21/87	5.95	7.00	6.26	4.90	3.75	3.20	3.19	3.28	3.51	3.12
1/22/87	5.95	7.02	6.25	4.85	3.74	3.22	3.21	3.30	3.47	3.13
1/23/87	5.94	7.04	6.23	4.79	3.73	3.23	3.22	3.30	3.44	3.16
1/24/87	5.93	7.05	6.22	4.70	3.72	3.17	3.15	3.23	3.37	3.10
1/25/87	5.92	7.06	6.22	4.66	3.71	3.16	3.14	3.21	3.35	3.10
1/26/87	5.92	7.07	6.21	4.58	3.71	3.15	3.12	3.18	3.30	3.11
1/27/87	5.91	7.07	6.20	4.49	3.69	3.13	3.10	3.14	3.22	3.13
1/28/87	5.90	7.07	6.19	4.41	3.68	3.12	3.08	3.11	3.16	3.10
1/29/87	5.89	7.07	6.18	4.35	3.67	3.10	3.06	3.09	3.12	3.12
1/30/87	5.89	7.07	6.17	4.30	3.66	3.11	3.06	3.08	3.10	3.13
1/31/87	5.88	7.08	6.16	4.26	3.65	3.11	3.05	3.07	3.08	3.13
2/ 1/87	5.87	7.07	6.15	4.20	3.64	3.09	3.03	3.03	3.04	3.12
2/ 2/87	5.86	7.07	6.15	4.16	3.63	3.07	3.01	3.00	3.00	3.11
2/ 3/87	5.86	7.07	6.14	4.12	3.62	3.05	2.99	2.98	2.97	3.08
2/ 4/87	5.85	7.07	6.14	4.08	3.62	2.98	2.94	2.94	2.93	2.99
2/ 5/87	5.85	7.12	6.14	4.05	3.61	2.96	2.90	2.91	2.89	2.98
2/ 6/87	5.85	7.13	6.15	4.04	3.60	2.93	2.88	2.89	2.88	2.94

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
2/ 7/87	5.87	7.13	6.18	4.12	3.60	2.94	2.89	2.91	2.92	2.94
2/ 8/87	5.87	7.12	6.18	4.18	3.60	2.93	2.88	2.91	2.94	2.94
2/ 9/87	5.86	7.11	6.18	4.07	3.58	2.87	2.83	2.85	2.86	2.91
2/10/87	5.85	7.10	6.18	3.97	3.57	2.87	2.80	2.82	2.80	2.92
2/11/87	5.85	7.09	6.18	3.92	3.56	2.89	2.82	2.82	2.79	2.94
2/12/87	5.84	7.08	6.19	3.90	3.55	2.89	2.82	2.82	2.78	2.95
2/13/87	5.84	7.07	6.18	3.86	3.53	2.87	2.81	2.80	2.75	2.93
2/14/87	5.84	7.07	6.18	3.83	3.52	2.86	2.79	2.78	2.73	2.92
2/15/87	5.84	7.07	6.19	3.80	3.52	2.87	2.79	2.78	2.71	2.93
2/16/87	5.85	7.07	6.19	3.82	3.51	2.89	2.82	2.80	2.72	2.95
2/17/87	5.85	7.07	6.20	3.79	3.51	2.89	2.81	2.79	2.70	2.95
2/18/87	5.85	7.09	6.20	3.76	3.50	2.89	2.80	2.78	2.68	2.96
2/19/87	5.85	7.11	6.21	3.72	3.49	2.89	2.81	2.77	2.66	2.96
2/20/87	5.85	7.11	6.22	3.70	3.48	2.87	2.79	2.76	2.65	2.95
2/21/87	5.85	7.10	6.22	3.68	3.47	2.85	2.77	2.75	2.62	2.93
2/22/87	5.85	7.10	6.23	3.64	3.46	2.82	2.74	2.72	2.59	2.91
2/23/87	5.85	7.09	6.23	3.59	3.45	2.80	2.72	2.69	2.55	2.89
2/24/87	5.84	7.08	6.24	3.55	3.44	2.79	2.70	2.67	2.52	2.88
2/25/87	5.85	7.08	6.26	3.53	3.45	2.79	2.71	2.68	2.52	2.89
2/26/87	5.85	7.07	6.26	3.55	3.47	2.87	2.79	2.74	2.64	2.94
2/27/87	5.84	7.07	6.25	3.52	3.45	2.84	2.77	2.73	2.62	2.93
2/28/87	5.84	7.06	6.24	3.48	3.44	2.81	2.73	2.69	2.57	2.88
3/ 1/87	5.84	7.06	6.24	3.45	3.42	2.77	2.69	2.66	2.51	2.85
3/ 2/87	5.86	7.11	6.30	3.63	3.45	2.94	2.86	2.79	2.65	2.96
3/ 3/87	5.90	7.12	6.32	4.27	3.48	3.19	M	3.06	3.06	3.21
3/ 4/87	5.90	7.11	6.31	4.26	3.47	3.29	3.32	3.34	3.33	3.21
3/ 5/87	5.89	7.10	6.29	4.19	3.46	3.20	3.17	3.20	3.20	3.17
3/ 6/87	5.90	7.12	6.30	4.13	3.47	3.19	3.13	3.24	M	3.09
3/ 7/87	6.08	7.41	6.56	5.59	3.84	3.73	3.97	4.05	M	3.57
3/ 8/87	6.08	7.40	6.62	5.62	3.95	3.18	3.49	3.94	M	2.95
3/ 9/87	6.06	7.34	6.64	5.59	3.95	3.00	3.18	3.65	M	2.74
3/10/87	6.07	7.28	6.65	5.54	3.93	3.02	3.12	3.46	M	2.75
3/11/87	6.06	7.23	6.65	5.48	3.91	3.25	3.28	3.47	M	3.12
3/12/87	6.07	7.18	6.63	5.42	3.89	3.33	3.35	3.49	M	3.23
3/13/87	6.07	7.15	6.62	5.37	3.87	3.34	3.36	3.49	M	3.26
3/14/87	6.08	7.13	6.59	5.30	3.85	3.33	3.35	3.46	M	3.26
3/15/87	6.08	7.12	6.57	5.23	3.83	3.29	3.30	3.41	M	3.24
3/16/87	6.07	7.11	6.54	5.14	3.82	3.25	3.25	3.36	M	3.17
3/17/87	6.06	7.09	6.52	5.05	3.81	3.20	3.20	3.29	M	3.13
3/18/87	6.05	7.08	6.49	4.94	3.79	3.15	3.14	3.23	M	3.07
3/19/87	6.05	7.07	6.47	4.85	3.78	3.09	3.09	3.18	M	3.02
3/20/87	6.04	7.06	6.44	4.76	3.78	3.09	3.07	3.13	3.27	3.04
3/21/87	6.03	7.06	6.42	4.65	3.77	3.09	3.06	3.11	3.21	3.08
3/22/87	6.01	7.05	6.40	4.54	3.76	3.07	3.04	3.07	3.15	3.07
3/23/87	6.01	7.06	6.40	4.60	3.78	3.22	3.17	3.17	3.26	3.22
3/24/87	6.05	7.09	6.43	4.95	3.82	3.36	3.43	3.49	3.68	3.36
3/25/87	6.08	7.13	6.44	5.29	3.85	3.14	3.25	3.52	3.98	2.98
3/26/87	6.07	7.14	6.43	5.24	3.85	3.01	3.08	3.35	3.85	2.85

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
3/27/87	6.06	7.17	6.44	5.17	3.84	3.19	3.20	3.34	3.72	3.11
3/28/87	6.05	7.16	6.42	5.09	3.84	3.20	3.21	3.33	M	3.13
3/29/87	6.04	7.18	6.54	5.02	3.83	3.18	3.18	3.29	M	3.12
3/30/87	6.04	7.20	6.61	4.93	3.84	3.12	3.14	3.22	3.34	3.08
3/31/87	6.08	7.22	6.63	5.16	3.88	3.19	3.21	3.25	3.49	3.00
4/ 1/87	6.09	7.21	6.61	5.19	3.88	3.20	3.23	3.28	3.48	3.13
4/ 2/87	6.10	7.19	6.59	5.09	3.86	3.17	3.19	3.23	3.40	3.12
4/ 3/87	6.10	7.17	6.58	5.00	3.85	3.12	3.14	3.18	3.35	3.07
4/ 4/87	6.10	7.15	6.56	4.88	3.84	3.05	3.06	3.11	3.26	3.01
4/ 5/87	6.09	7.14	6.54	4.75	3.83	2.99	3.00	3.04	3.17	2.96
4/ 6/87	6.08	7.13	6.52	4.62	3.81	2.93	2.94	2.98	3.09	2.90
4/ 7/87	6.08	7.13	6.51	4.53	3.80	2.91	2.90	2.93	3.02	2.89
4/ 8/87	6.07	7.13	6.50	4.46	3.80	2.94	2.92	2.93	2.99	2.95
4/ 9/87	6.07	7.13	6.48	4.38	3.79	2.94	2.92	2.92	2.95	2.96
4/10/87	6.06	7.13	6.46	4.26	3.78	2.90	2.87	2.88	2.89	2.93
4/11/87	6.06	7.14	6.44	4.16	3.76	2.86	2.83	2.82	2.82	2.90
4/12/87	6.05	7.14	6.42	4.07	3.75	2.83	2.80	2.78	2.77	2.88
4/13/87	6.05	7.15	6.41	4.00	3.74	2.80	2.77	2.75	2.72	2.87
4/14/87	6.04	7.16	6.40	3.94	3.73	2.78	2.75	2.70	2.68	2.85
4/15/87	6.03	7.16	6.39	3.90	3.72	2.77	2.74	2.70	2.65	2.85
4/16/87	6.03	7.17	6.38	3.85	3.71	2.76	2.72	2.68	2.62	2.86
4/17/87	6.02	7.17	6.37	3.79	3.70	2.76	2.71	2.66	2.59	2.87
4/18/87	6.01	7.16	6.36	3.71	3.68	2.74	2.69	2.63	2.56	2.86
4/19/87	6.00	7.16	6.35	3.63	3.67	2.71	2.66	2.59	2.50	2.83
4/20/87	5.99	7.15	6.34	3.56	3.65	2.69	2.62	2.56	2.45	2.80
4/21/87	5.98	7.14	6.33	3.50	3.64	2.68	2.61	2.53	2.41	2.80
4/22/87	5.98	7.13	6.32	3.44	3.62	2.68	2.61	2.51	2.38	2.83
4/23/87	5.97	7.13	6.31	3.39	3.61	2.67	2.60	2.49	2.35	2.82
4/24/87	5.96	7.12	6.30	3.35	3.60	2.66	2.59	2.47	2.32	2.81
4/25/87	5.95	7.12	6.29	3.30	3.58	2.63	2.56	2.43	2.29	2.77
4/26/87	5.94	7.11	6.27	3.24	3.57	2.61	2.53	2.40	2.27	2.76
4/27/87	5.93	7.10	6.26	3.19	3.55	2.61	2.52	2.39	2.23	2.76
4/28/87	5.92	7.10	6.25	3.15	3.53	2.60	2.51	2.38	2.20	2.76
4/29/87	5.91	7.09	6.24	3.10	3.51	2.57	2.49	2.36	2.17	2.73
4/30/87	5.90	7.08	6.22	3.05	3.50	2.55	2.46	2.33	2.14	2.71
5/ 1/87	5.89	7.08	6.21	3.01	3.48	2.71	2.53	2.35	2.12	2.87
5/ 2/87	5.88	7.07	6.19	2.99	3.46	M	2.67	2.44	2.13	3.05
5/ 3/87	5.87	7.06	6.18	2.97	3.45	M	2.75	2.50	2.14	3.14
5/ 4/87	5.86	7.06	6.17	2.94	3.43	2.99	2.80	2.54	2.15	3.21
5/ 5/87	5.85	7.05	6.15	2.92	3.41	3.02	2.82	2.56	2.16	3.24
5/ 6/87	5.84	7.05	6.14	2.90	3.41	2.99	2.82	2.56	2.15	3.19
5/ 7/87	5.83	7.05	6.13	3.41	3.46	3.04	2.84	2.57	2.17	3.23
5/ 8/87	5.83	7.05	6.13	3.88	3.50	3.20	3.00	2.74	2.41	3.44
5/ 9/87	5.83	7.06	6.17	4.03	3.53	3.28	3.10	2.85	2.54	3.57
5/10/87	5.91	7.15	6.29	4.94	3.64	3.50	3.24	2.96	2.64	3.76
5/11/87	5.97	7.19	6.46	5.45	3.66	3.75	3.54	3.22	2.89	3.96
5/12/87	5.97	7.17	6.41	5.46	3.66	3.75	3.63	3.42	3.17	3.89
5/13/87	5.97	7.18	6.39	5.52	3.65	3.93	3.81	3.64	3.61	4.35

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
5/14/87	5.99	7.23	6.40	5.51	3.64	3.81	3.80	3.75	3.63	4.16
5/15/87	6.00	7.26	6.40	5.45	M	3.66	3.63	3.62	3.58	3.82
5/16/87	6.08	7.24	6.42	5.72	M	3.99	3.84	3.75	3.64	4.21
5/17/87	6.04	7.20	6.41	5.65	M	3.98	3.87	3.77	3.68	4.10
5/18/87	6.02	7.18	6.41	5.59	M	3.92	3.83	3.75	3.66	4.01
5/19/87	6.02	7.16	6.41	5.51	M	3.85	3.78	3.76	3.67	3.84
5/20/87	6.01	7.14	6.41	5.41	M	3.78	3.74	3.71	3.66	3.76
5/21/87	6.00	7.12	6.40	5.28	M	3.68	3.65	3.61	3.58	3.66
5/22/87	5.98	7.11	6.39	5.12	M	3.57	3.56	3.52	3.48	3.57
5/23/87	5.97	7.10	6.37	4.96	M	3.52	3.51	3.48	3.39	3.50
5/24/87	5.96	7.08	6.36	4.78	M	3.43	3.43	3.40	3.34	3.42
5/25/87	5.95	7.07	6.34	4.58	M	3.33	3.32	3.30	3.25	3.34
5/26/87	5.94	7.06	6.33	4.40	M	3.25	3.22	3.19	3.10	3.25
5/27/87	5.94	7.05	6.31	4.23	M	3.16	3.11	3.09	2.99	3.16
5/28/87	5.93	7.04	6.30	4.09	M	3.09	3.05	3.02	2.90	3.09
5/29/87	5.92	7.02	6.29	3.96	M	3.07	3.03	2.98	2.86	3.05
5/30/87	5.91	7.01	6.27	3.87	M	3.07	3.02	2.97	2.85	3.04
5/31/87	5.90	7.00	6.25	3.80	M	3.01	2.96	2.92	2.78	2.99
6/ 1/87	5.95	7.08	6.34	4.11	M	2.97	2.93	2.89	2.74	2.97
6/ 2/87	6.01	7.14	6.42	4.41	M	2.99	2.95	2.95	2.81	2.96
6/ 3/87	6.03	7.13	6.42	4.31	M	3.00	2.96	2.94	2.82	2.96
6/ 4/87	6.03	7.12	6.43	4.18	3.88	2.97	2.95	2.93	2.80	2.92
6/ 5/87	6.02	7.10	6.42	4.04	3.84	2.96	2.94	2.93	2.75	2.90
6/ 6/87	6.02	7.08	6.41	3.90	3.81	2.93	2.92	2.91	2.70	2.87
6/ 7/87	6.01	7.07	6.41	3.92	3.78	2.91	2.89	2.88	2.65	2.84
6/ 8/87	6.01	7.06	6.40	3.96	3.76	2.90	2.88	2.87	2.61	2.82
6/ 9/87	6.04	7.05	6.38	3.85	3.73	2.98	2.94	2.89	2.60	2.89
6/10/87	6.05	7.04	6.37	3.82	3.71	2.94	2.91	2.88	2.59	2.86
6/11/87	6.02	7.03	6.36	3.74	3.69	M	2.87	2.85	2.54	2.84
6/12/87	6.01	7.01	6.34	3.64	3.67	M	2.85	2.83	2.49	2.84
6/13/87	5.99	7.00	6.32	3.52	3.65	M	2.83	2.79	2.44	2.84
6/14/87	5.97	7.00	6.30	3.41	3.63	M	2.81	2.76	2.40	2.82
6/15/87	6.03	7.01	6.32	3.79	3.67	M	2.80	2.74	2.36	2.82
6/16/87	6.10	7.01	6.32	4.64	3.74	M	2.79	2.74	2.40	2.81
6/17/87	6.07	7.00	6.31	4.44	3.72	M	2.78	2.73	2.39	2.78
6/18/87	6.04	6.99	6.29	4.25	3.69	M	2.77	2.71	2.36	2.78
6/19/87	6.03	6.97	6.28	4.19	3.67	M	2.79	2.73	2.36	2.77
6/20/87	6.01	6.96	6.26	4.09	3.66	M	2.82	2.73	2.35	2.81
6/21/87	5.99	6.94	6.24	3.90	3.63	M	2.76	2.67	2.32	2.81
6/22/87	5.98	6.93	6.23	3.74	3.60	M	2.69	2.58	2.27	2.76
6/23/87	6.03	6.93	6.28	4.15	3.58	M	2.65	2.51	2.22	2.76
6/24/87	6.13	6.92	6.33	5.08	3.56	2.91	2.81	2.60	2.27	3.00
6/25/87	6.08	6.95	6.32	4.80	3.54	3.15	3.02	2.79	2.40	3.27
6/26/87	6.09	6.99	6.34	4.69	3.53	3.29	3.19	2.98	2.59	3.40
6/27/87	6.10	6.98	6.34	5.15	3.53	3.37	3.25	3.04	2.68	3.39
6/28/87	6.12	6.97	6.33	5.54	3.52	3.93	3.89	3.64	3.52	3.77
6/29/87	6.15	6.98	6.33	5.84	3.52	4.56	4.69	4.52	4.83	4.40
6/30/87	6.13	7.00	6.32	5.92	3.51	4.37	4.60	4.66	5.04	4.05

Table D.6 Average Daily Water Levels (ft. NGVD), Everglades National Park and Vicinity,
from July 11, 1985 through July 11, 1987

Date	P-33 ENP	NP-201 ENP	NP-202 ENP	NP-206 ENP	P-36 ENP	NTS-1 ENP	NTS-3 ENP	NTS-5 ENP	NTS-7 ENP	Frog Pond WMD
7/ 1/87	6.10	6.98	6.30	5.89	3.51	4.08	4.29	4.52	5.01	3.80
7/ 2/87	6.07	6.97	6.30	5.87	3.53	4.05	4.18	4.39	4.98	3.87
7/ 3/87	6.05	6.97	6.29	5.85	3.51	4.02	4.10	4.28	4.86	3.83
7/ 4/87	6.03	6.95	6.28	5.82	3.49	4.02	4.06	4.19	4.71	3.90
7/ 5/87	6.04	6.93	6.26	5.81	3.48	4.07	4.05	4.12	4.56	3.99
7/ 6/87	6.02	6.90	6.25	5.78	3.46	3.99	4.00	4.05	4.42	3.88
7/ 7/87	6.01	6.91	6.23	5.75	3.46	3.88	3.93	4.01	4.34	3.72
7/ 8/87	6.00	6.94	6.22	5.71	3.47	3.86	3.92	4.01	4.32	3.66
7/ 9/87	5.97	6.92	6.20	5.66	3.47	3.82	3.86	3.91	4.15	3.60
7/10/87	5.95	6.90	6.19	5.61	3.48	3.74	3.80	3.82	3.99	3.52
7/11/87	5.94	6.88	6.19	5.55	3.49	3.67	3.75	3.75	3.86	3.47

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
7/11/85	4.65	4.30	4.56	4.11	3.75	M
7/12/85	4.69	4.30	4.58	4.12	4.10	M
7/13/85	4.74	4.33	4.65	4.06	4.30	M
7/14/85	4.82	4.36	4.69	3.96	4.30	M
7/15/85	4.80	4.41	4.65	3.93	4.25	M
7/16/85	4.71	4.48	4.53	3.95	4.18	M
7/17/85	4.77	4.57	4.48	4.00	4.15	M
7/18/85	4.76	4.68	4.42	3.97	4.20	M
7/19/85	4.68	5.18	4.37	3.93	4.22	M
7/20/85	4.63	5.73	4.36	4.26	4.18	M
7/21/85	4.61	5.74	4.53	4.23	4.20	M
7/22/85	4.57	5.70	4.62	4.34	4.35	M
7/23/85	6.65	5.60	5.63 E	5.82	4.75	M
7/24/85	6.39	5.47	5.97	5.11	4.70	M
7/25/85	5.68	5.36	5.70	4.53	4.72	M
7/26/85	5.09	5.24	5.48	4.33	4.65	M
7/27/85	4.93	5.15	5.27	4.11	4.55	M
7/28/85	4.83	5.05	5.05	3.93	4.40	M
7/29/85	4.75	4.92	4.91 E	3.98	4.25	M
7/30/85	4.66	4.83	4.92 E	4.06	4.21	M
7/31/85	4.62	4.78	4.91 E	4.09	4.20	M
8/ 1/85	4.59	4.76	5.20 E	4.50	4.32	M
8/ 2/85	4.65	4.70	5.23	4.36	4.42	M
8/ 3/85	4.64	4.63	5.01	4.44	4.42	M
8/ 4/85	4.65	4.57	4.93 E	4.25	4.41	M
8/ 5/85	4.60	4.54	5.27 E	4.55	4.35	M
8/ 6/85	4.58	4.59	5.63 E	4.31	4.37	M
8/ 7/85	4.65	4.59	5.28 E	4.23	4.37	M
8/ 8/85	4.71	4.78	4.93 E	4.04	4.30	M
8/ 9/85	4.71	4.76	4.86 E	3.96	4.21	M
8/10/85	4.71	4.70	4.78 E	3.90	4.14	M
8/11/85	4.70	4.63	4.70 E	3.82	4.05	M
8/12/85	4.72	4.57	4.72 E	3.93	3.98	M
8/13/85	4.65	4.54	4.66 E	3.90	3.97	M
8/14/85	4.56	4.59	4.45 E	4.09	3.93	M
8/15/85	4.51	4.59	4.41	4.16	3.92	M
8/16/85	4.46	4.78	4.33	4.03	3.91	M
8/17/85	4.45	4.76	4.30	4.01	3.88	M
8/18/85	4.47	4.70	4.31	4.09	3.87	M
8/19/85	4.47	4.63	4.35	4.13	3.87	M
8/20/85	4.49	4.57	4.31	3.99	3.85	M
8/21/85	4.55	4.54	4.28	3.93	3.81	M
8/22/85	4.57	4.59	4.26	3.93	3.79	M
8/23/85	4.53	4.59	4.22	3.91	3.75	M
8/24/85	4.46	4.78	4.14	3.70	3.70	M
8/25/85	4.47	4.76	4.04	3.63	3.61	M
8/26/85	4.48	4.70	4.03	3.61	3.62	M
8/27/85	4.49	4.63	4.08	3.79	3.83	M

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
8/28/85	4.70	4.57	4.10	3.84	3.86	M
8/29/85	5.77	4.54	4.13	4.00	3.90	M
8/30/85	5.36	4.59	4.28	3.99	3.91	M
8/31/85	5.01	4.59	4.33	4.02	3.81	M
9/ 1/85	4.85	4.78	4.54	4.12	3.76	M
9/ 2/85	4.67	4.76	4.66	4.20	3.68	M
9/ 3/85	4.56	4.70	4.41	4.02	3.63	M
9/ 4/85	4.57	4.63	4.29	3.97	3.74	M
9/ 5/85	4.58	4.57	4.26	3.99	3.70	M
9/ 6/85	4.69	4.54	4.22	3.74	3.75	M
9/ 7/85	4.75	4.59	4.19	3.67	3.72	M
9/ 8/85	4.82	4.59	4.19	4.06	3.72	M
9/ 9/85	4.86	4.78	4.34	4.12	3.73	M
9/10/85	4.81	4.76	4.41	4.13	3.72	M
9/11/85	4.70	4.70	4.59	4.35	3.72	M
9/12/85	4.56	4.63	4.59	4.20	3.74	M
9/13/85	4.54	4.57	4.73	4.13	3.75	M
9/14/85	4.42	4.54	4.85	4.23	3.95	M
9/15/85	4.33	4.59	4.95	4.25	4.00	M
9/16/85	4.23	4.59	5.24	4.62	4.40	M
9/17/85	4.37	4.57	5.47	4.61	4.42	M
9/18/85	5.09	4.54	5.37	5.33	5.01	M
9/19/85	5.73	4.46	5.24	4.38	5.10	M
9/20/85	5.73	4.37	5.57	4.56	5.10	M
9/21/85	5.65	4.78	5.34	4.24	4.94	M
9/22/85	5.35	4.76	5.35	4.21	4.82	M
9/23/85	5.07	4.70	5.30	4.17	4.74	M
9/24/85	4.87	4.63	5.33	4.16	4.62	M
9/25/85	4.80	4.78	5.24	4.14	4.55	M
9/26/85	4.77	4.76	5.23	4.11	4.47	M
9/27/85	4.66	4.78	5.21	4.10	4.40	M
9/28/85	4.58	4.76	5.05	4.19	4.34	M
9/29/85	4.57	4.78	4.96	4.22	4.28	M
9/30/85	4.68	4.76	4.95	4.12	4.25	M
10/ 1/85	4.68	4.78	4.97 E	4.07	4.24	M
10/ 2/85	4.60	4.76	4.91 E	4.01	4.22	M
10/ 3/85	4.52	4.70	4.81 E	3.91	4.15	M
10/ 4/85	4.46	4.63	4.92 E	4.00	4.09	M
10/ 5/85	4.43	4.57	5.35 E	4.07	4.05	M
10/ 6/85	4.47	4.54	5.32 E	4.41	4.06	M
10/ 7/85	4.56	4.59	5.19 E	4.37	4.13	M
10/ 8/85	4.56	4.59	5.05 E	4.13	4.13	M
10/ 9/85	4.53	4.57	4.93 E	4.00	4.09	M
10/10/85	4.40	4.54	4.86 E	3.91	3.95	M
10/11/85	4.30	4.46	4.73 E	3.96	3.93	M
10/12/85	4.24	4.37	4.61 E	3.98	3.92	M
10/13/85	4.22	4.30	4.53 E	3.85	3.91	M
10/14/85	4.18	4.25	4.35 E	3.61	3.85	M

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
10/15/85	4.19	4.14	4.17 E	3.42	3.71	M
10/16/85	4.18	4.05	4.01 E	3.37	3.60	M
10/17/85	4.18	3.98	3.92	3.34	3.52	M
10/18/85	4.13	3.92	3.87	3.31	3.44	M
10/19/85	4.10	3.87	3.86	3.49	3.41	M
10/20/85	4.18	3.88	4.08	3.55	3.61	M
10/21/85	4.23	3.94	4.16	3.50	3.67	M
10/22/85	4.22	3.99	4.27	3.50	3.70	M
10/23/85	4.23	4.00	4.20	3.37	3.67	M
10/24/85	4.22	4.01	4.32	3.42	3.62	M
10/25/85	4.20	4.03	4.39	3.42	3.62	M
10/26/85	4.16	4.02	4.38	3.40	3.61	M
10/27/85	4.11	4.01	4.39	3.58	3.63	M
10/28/85	4.11	4.00	4.45	3.58	3.69	M
10/29/85	4.11	4.00	4.44	3.53	3.70	M
10/30/85	4.15	3.98	4.21	3.36	3.66	M
10/31/85	4.19	3.94	4.02	3.33	3.53	M
11/ 1/85	4.21	3.89	3.93	3.31	3.43	M
11/ 2/85	4.21	3.85	3.87	3.28	3.39	M
11/ 3/85	4.23	3.82	3.82	3.25	3.34	M
11/ 4/85	4.23	3.79	3.80	3.35	3.30	M
11/ 5/85	4.22	3.75	3.81	3.35	3.31	M
11/ 6/85	4.22	3.74	3.81	3.33	3.30	M
11/ 7/85	4.22	3.71	3.77	3.33	3.28	M
11/ 8/85	4.21	3.68	3.76	3.32	3.24	M
11/ 9/85	4.20	3.66	3.76	3.31	3.23	M
11/10/85	4.19	3.64	3.75	3.31	3.20	M
11/11/85	4.65	3.63	3.74	3.32	3.20	M
11/12/85	4.56	3.60	3.72	3.32	3.18	M
11/13/85	4.43	3.60	3.71	3.21	3.17	M
11/14/85	4.41	3.66	3.79	3.24	3.18	M
11/15/85	4.39	3.70	3.89	3.38	3.18	M
11/16/85	4.36	3.72	3.92	3.34	3.19	M
11/17/85	4.34	3.75	3.98	3.39	3.21	M
11/18/85	4.31	3.77	3.96	3.33	3.21	M
11/19/85	4.29	3.78	3.81	3.57	3.16	M
11/20/85	4.40	3.79	3.98	3.59	3.27	M
11/21/85	4.46	3.79	3.96	3.39	3.29	M
11/22/85	4.45	M	3.90	3.41	3.31	M
11/23/85	4.43	M	3.89	3.41	3.32	M
11/24/85	4.43	M	3.86	3.38	3.32	M
11/25/85	4.39	M	3.85	3.32	3.31	M
11/26/85	4.37	M	3.94	3.34	3.30	M
11/27/85	4.42	M	4.00	3.43	3.31	M
11/28/85	4.50	M	3.95	3.28	3.29	M
11/29/85	4.56	M	3.91	3.26	3.26	M
11/30/85	4.61	M	3.86	3.23	3.23	M
12/ 1/85	4.63	M	3.85	3.21	3.21	M

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
12/ 2/85	4.63		M 3.82	3.19	3.18	M
12/ 3/85	4.65		M 3.77	3.18	3.15	M
12/ 4/85	4.66		M 3.74	3.20	3.12	M
12/ 5/85	4.71		M 3.79	3.39	3.20	M
12/ 6/85	4.72	4.00	3.95	3.48	3.26	M
12/ 7/85	4.64		M 3.89	3.19	3.26	M
12/ 8/85	4.52		M 3.78	3.03	3.21	M
12/ 9/85	4.43		M 3.71	3.02	3.15	M
12/10/85	4.43		M 3.70	3.07	3.12	M
12/11/85	4.47	3.84	3.72	3.08	3.12	M
12/12/85	4.49	3.84	3.72	3.08	3.11	M
12/13/85	4.52	3.84	3.71	3.07	3.09	M
12/14/85	4.53	3.84	3.71	3.07	3.08	M
12/15/85	4.55	3.85	3.72	3.07	3.07	M
12/16/85	4.56	3.86	3.72	3.07	3.07	M
12/17/85	4.56	3.87	3.73	3.11	3.08	M
12/18/85	4.59	4.08	3.73	3.12	3.09	M
12/19/85	4.59	4.09	3.73	3.12	3.09	M
12/20/85	4.59	4.09	3.73	3.10	3.08	M
12/21/85	4.58	4.08	3.71	3.07	3.06	M
12/22/85	4.56	4.08	3.71	3.04	3.05	M
12/23/85	4.56	4.08	3.69	3.02	3.04	M
12/24/85	4.56	4.07	3.69	3.15	3.03	M
12/25/85	4.60	4.09	3.73	3.25	3.10	M
12/26/85	4.59	4.11	3.78	3.25	3.13	M
12/27/85	4.58	4.11	3.75	3.21	3.12	M
12/28/85	4.58	3.87	3.76	3.22	3.14	M
12/29/85	4.64	3.91	3.81	3.25	3.17	M
12/30/85	4.65	3.94	3.83	3.25	3.18	M
12/31/85	4.64	3.95	3.84	3.23	3.18	M
1/ 1/86	4.63	3.96	3.83	3.21	3.18	M
1/ 2/86	4.62	3.96	3.80	3.20	3.17	M
1/ 3/86	4.60	3.94	3.77	3.17	3.15	M
1/ 4/86	4.56	3.93	3.76	3.14	3.13	M
1/ 5/86	4.56	3.92	3.73	3.12	3.12	M
1/ 6/86	4.54	3.91	3.71	3.09	3.10	M
1/ 7/86	4.54	3.88	3.70	3.18	3.08	M
1/ 8/86	4.72	3.88	3.70	3.55	3.14	M
1/ 9/86	4.94	3.97	3.95	3.62	3.30	M
1/10/86	5.09	4.18	4.42	3.77	3.68	M
1/11/86	5.01	4.33	4.46	3.74	3.82	M
1/12/86	4.95	4.34	4.33	3.50	3.81	M
1/13/86	4.97	4.37	4.22	3.48	3.75	M
1/14/86	4.94	4.41	4.25	3.45	3.74	M
1/15/86	4.89	4.41	4.22	3.42	3.73	M
1/16/86	4.83	4.39	4.18	3.40	3.67	M
1/17/86	4.81	4.36	4.16	3.39	3.61	M
1/18/86	4.82	4.33	4.16	3.44	3.57	M

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
1/19/86	4.82	4.32	4.15	3.46	3.55	M
1/20/86	4.82	4.32	4.11	3.45	3.54	M
1/21/86	4.83	4.30	4.08	3.42	3.52	M
1/22/86	4.83	4.26	4.05	3.38	3.50	M
1/23/86	4.80	4.23	4.02	3.35	3.46	M
1/24/86	4.78	4.20	4.00	3.33	3.43	M
1/25/86	4.76	4.17	3.97	3.31	3.39	M
1/26/86	4.74	4.14	3.94	3.30	3.35	M
1/27/86	4.72	4.13	3.91	3.29	3.33	M
1/28/86	4.68	4.09	3.86	3.26	3.29	M
1/29/86	4.61	4.02	3.75	3.17	3.22	M
1/30/86	4.61	3.95	3.76	3.14	3.15	M
1/31/86	4.60	3.95	3.76	3.13	3.16	M
2/ 1/86	4.58	3.94	3.73	3.12	3.15	M
2/ 2/86	4.57	3.93	3.71	3.10	3.14	M
2/ 3/86	4.56	3.91	3.68	3.08	3.13	M
2/ 4/86	4.52	3.88	3.66	3.05	3.10	M
2/ 5/86	4.49	3.86	3.63	3.01	3.07	M
2/ 6/86	4.46	3.83	3.60	2.98	3.03	M
2/ 7/86	4.73	3.81	3.56	2.94	3.00	M
2/ 8/86	4.74	3.78	3.53	2.93	2.97	M
2/ 9/86	4.68	3.76	3.52	2.91	2.95	M
2/10/86	4.62	3.74	3.49	2.89	2.94	M
2/11/86	4.56	3.70	3.48	2.87	2.85	M
2/12/86	4.54	3.69	3.47	2.87	2.81	M
2/13/86	4.48	3.68	3.45	2.87	2.80	M
2/14/86	4.44	3.66	3.44	2.85	2.80	M
2/15/86	4.39	3.63	3.42	2.83	2.77	M
2/16/86	4.36	3.63	3.40	2.80	2.74	M
2/17/86	4.33	3.60	3.39	2.78	2.73	M
2/18/86	4.71	3.58	3.38	3.01	2.76	M
2/19/86	4.77	3.64	3.47	3.07	2.89	M
2/20/86	4.76	3.68	3.53	3.07	2.95	M
2/21/86	4.71	3.71	3.53	3.06	2.97	M
2/22/86	4.67	3.72	3.53	3.03	2.97	M
2/23/86	4.63	3.73	3.52	3.01	2.97	M
2/24/86	4.57	3.73	3.51	2.98	2.97	M
2/25/86	4.52	3.70	3.48	2.93	2.95	M
2/26/86	4.46	3.69	3.45	2.88	2.93	M
2/27/86	4.40	3.66	3.41	2.84	2.90	M
2/28/86	4.36	3.64	3.38	2.85	2.86	M
3/ 1/86	4.27	3.61	3.36	2.86	2.83	M
3/ 2/86	4.23	3.59	3.32	2.85	2.82	M
3/ 3/86	4.16	3.55	3.23	2.81	2.79	M
3/ 4/86	4.12	3.50	3.28	2.84	2.75	M
3/ 5/86	4.13	3.52	3.34	2.88	2.78	M
3/ 6/86	4.14	3.53	3.37	2.90	2.80	M
3/ 7/86	4.15	3.55	3.38	2.91	2.80	M

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
3/ 8/86	4.13	3.55	3.38	2.90	2.80	M
3/ 9/86	4.13	3.55	3.39	2.89	2.81	M
3/10/86	6.02	3.58	3.40	3.26	2.94	M
3/11/86	5.92	3.69	3.62	3.42	3.23	M
3/12/86	5.28	3.85	4.00	3.54	3.41	M
3/13/86	5.07	3.94	3.99	3.56	3.43	M
3/14/86	5.03	3.99	4.01	3.56	3.43	M
3/15/86	4.99	4.03	4.00	3.47	3.43	M
3/16/86	4.92	4.05	3.96	3.44	3.41	M
3/17/86	4.89	4.06	3.94	3.57	3.42	M
3/18/86	4.86	4.07	3.94	3.57	3.45	M
3/19/86	4.84	4.08	3.92	3.35	3.44	M
3/20/86	4.80	4.07	3.89	3.36	3.41	M
3/21/86	4.87	4.08	3.91	3.53	3.40	M
3/22/86	4.87	4.11	3.97	3.50	3.42	M
3/23/86	4.84	4.11	3.96	3.40	3.42	M
3/24/86	4.80	4.11	3.92	3.32	3.39	M
3/25/86	4.75	4.12	3.88	3.30	3.35	M
3/26/86	5.63	4.33	4.04	4.11	3.90	M
3/27/86	5.63	4.71	4.43	3.69	4.10	M
3/28/86	5.51	4.97	4.90	3.67	4.20	M
3/29/86	5.34	5.02	4.86	3.58	4.20	M
3/30/86	5.17	5.09	4.82	3.55	4.15	M
3/31/86	5.04	5.21	4.93	3.55	4.14	M
4/ 1/86	5.54	5.20	4.84	3.46	4.12	M
4/ 2/86	5.36	5.13	4.72	3.36	4.00	M
4/ 3/86	5.02	5.03	4.70	3.31	3.88	M
4/ 4/86	4.81	5.00	4.63	3.47	3.80	M
4/ 5/86	4.73	4.86	4.36	3.45	3.72	M
4/ 6/86	4.75	4.70	4.28	3.50	3.67	M
4/ 7/86	4.77	4.62	4.23	3.52	3.63	M
4/ 8/86	4.79	4.55	4.13	3.50	3.60	M
4/ 9/86	4.77	4.46	4.06	3.48	3.54	M
4/10/86	4.77	4.39	3.99	3.44	3.48	M
4/11/86	4.75	4.32	3.94	3.36	3.44	M
4/12/86	4.73	4.26	3.91	3.27	3.37	M
4/13/86	4.80	4.24	3.93	3.50	3.36	M
4/14/86	4.84	4.26	4.00	3.38	3.39	M
4/15/86	4.83	4.26	4.01	3.40	3.40	M
4/16/86	4.83	4.25	3.98	3.40	3.39	M
4/17/86	4.81	4.23	3.94	3.36	3.36	5.54
4/18/86	4.77	4.21	3.90	3.31	3.32	5.53
4/19/86	4.74	4.18	3.86	3.26	3.27	5.50
4/20/86	4.71	4.15	3.82	3.22	3.23	5.46
4/21/86	4.70	4.12	3.79	3.18	3.20	5.45
4/22/86	4.67	4.08	3.75	3.14	3.15	5.41
4/23/86	4.62	4.03	3.69	3.06	3.09	5.36
4/24/86	4.57	4.00	3.63	3.01	3.03	5.33

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
4/25/86	4.55	3.96	3.61	3.00	2.98	5.30
4/26/86	4.49	3.93	3.68	3.04	2.93	5.31
4/27/86	4.38	3.93	3.71	3.05	2.93	5.31
4/28/86	4.34	3.93	3.71	3.18	2.90	5.29
4/29/86	4.25	3.90	3.62	3.24	2.87	5.25
4/30/86	4.17	3.84	3.59	3.27	2.88	5.23
5/ 1/86	4.13	3.79	3.55	3.32	2.88	5.19
5/ 2/86	4.08	3.76	3.52	3.32	2.88	5.17
5/ 3/86	4.02	3.72	3.51	3.31	2.87	5.13
5/ 4/86	4.09	3.70	3.50	3.35	2.88	5.17
5/ 5/86	4.14	3.71	3.53	3.37	2.89	5.22
5/ 6/86	4.13	3.72	3.53	3.41	2.91	5.19
5/ 7/86	4.08	3.71	3.54	3.41	2.92	5.14
5/ 8/86	4.08	3.70	3.54	3.56	2.92	5.18
5/ 9/86	4.09	3.69	3.62	3.61	2.97	5.27
5/10/86	4.08	3.70	3.67	3.60	3.00	5.31
5/11/86	4.06	3.70	3.67	3.58	3.01	5.23
5/12/86	4.02	3.68	3.66	3.54	3.01	5.17
5/13/86	3.96	3.67	3.62	3.50	2.99	5.12
5/14/86	3.95	3.64	3.58	3.45	2.97	5.13
5/15/86	3.92	3.61	3.56	3.40	2.94	5.08
5/16/86	3.88	3.60	3.56	3.38	2.92	5.04
5/17/86	3.86	3.60	3.55	3.36	2.91	4.98
5/18/86	3.83	3.60	3.51	3.32	2.89	4.93
5/19/86	3.80	3.57	3.47	3.28	2.87	4.90
5/20/86	3.77	3.54	3.47	3.84	2.86	4.89
5/21/86	3.78	3.63	3.67	3.72	2.95	4.96
5/22/86	4.29	4.74	4.64	3.88	3.10	5.23
5/23/86	4.45	4.83	4.69	4.22	3.37	5.26
5/24/86	4.49	4.83	4.39	4.09	3.57	5.18
5/25/86	4.49	4.72	4.25	3.88	3.62	5.08
5/26/86	4.45	4.60	4.12	3.74	3.62	5.00
5/27/86	4.39	4.45	3.99	3.60	3.58	4.93
5/28/86	4.31	4.33	3.94	3.52	3.51	4.90
5/29/86	4.27	4.25	3.87	3.46	3.46	4.83
5/30/86	4.21	4.16	3.82	3.48	3.39	4.80
5/31/86	4.15	4.07	3.78	3.48	3.35	4.79
6/ 1/86	4.11	4.02	3.73	3.44	3.33	4.81
6/ 2/86	4.08	3.97	3.70	3.41	3.31	4.81
6/ 3/86	4.05	3.92	3.69	3.42	3.28	4.79
6/ 4/86	4.03	3.87	3.68	3.41	3.27	4.70
6/ 5/86	4.01	3.83	3.65	3.35	3.24	4.63
6/ 6/86	3.96	3.78	3.60	3.32	3.21	4.58
6/ 7/86	3.90	3.73	3.56	4.27	3.43	4.54
6/ 8/86	4.24	3.75	3.67	4.03	3.78	4.89
6/ 9/86	4.61	3.90	3.86	4.03	3.87	5.22
6/10/86	4.69	4.00	3.84	3.77	3.86	5.12
6/11/86	4.69	4.07	3.87	3.77	3.82	4.89

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
6/12/86	4.60	4.10	3.87	3.74	3.78	4.83
6/13/86	4.54	4.10	3.94	4.09	3.73	4.86
6/14/86	4.54	4.13	4.12	3.97	3.74	4.86
6/15/86	4.57	4.14	4.04	4.73	3.99	4.96
6/16/86	4.66	4.19	4.08	4.13	4.08	5.03
6/17/86	4.69	4.24	4.15	3.99	4.08	5.01
6/18/86	4.71	4.26	4.11	3.81	4.03	5.00
6/19/86	4.98	4.31	4.12	4.01	3.96	5.10
6/20/86	6.34	4.48	4.35	3.96	4.02	5.46
6/21/86	6.19	4.72	4.37	3.80	4.06	5.50
6/22/86	6.08	4.93	4.56	4.01	4.34	5.45
6/23/86	6.07	5.02	4.72	4.53	4.82	5.43
6/24/86	6.07	5.02	4.77	4.24	4.86	5.52
6/25/86	5.31	5.09	4.90	3.98	4.77	5.29
6/26/86	5.02	5.13	4.98	4.40	4.61	5.16
6/27/86	4.81	5.16	5.01	4.32	4.50	5.23
6/28/86	4.68	5.16	4.95	3.93	4.44	5.13
6/29/86	4.59	5.18	4.94	3.92	4.42	5.16
6/30/86	4.54	5.19	4.98	3.84	4.42	5.16
7/ 1/86	4.48	5.14	4.90	3.68	4.35	5.12
7/ 2/86	4.52	5.06	4.88	3.65	4.23	5.11
7/ 3/86	4.86	5.06	4.81	4.02	4.14	5.24
7/ 4/86	4.93	5.07	4.81	3.97	4.11	5.39
7/ 5/86	4.94	5.08	4.78	3.88	4.09	5.52
7/ 6/86	4.83	5.08	4.75	3.88	4.05	5.46
7/ 7/86	4.73	5.04	4.72	3.85	4.03	5.51
7/ 8/86	4.67	4.96	4.71	3.83	4.01	5.54
7/ 9/86	5.54	4.89	4.68	4.35	4.00	5.57
7/10/86	5.26	4.90	4.71	4.13	4.04	5.63
7/11/86	4.85	4.90	4.70	3.98	4.05	5.64
7/12/86	4.70	4.86	4.66	3.88	4.04	5.61
7/13/86	4.60	4.82	4.62	3.79	4.03	5.60
7/14/86	4.53	4.77	4.57	3.97	3.99	5.56
7/15/86	4.47	4.73	4.53	3.78	3.94	5.46
7/16/86	4.40	4.69	4.47	3.77	3.88	5.38
7/17/86	4.36	4.63	4.33	3.89	3.85	5.48
7/18/86	4.43	4.51	4.26	3.93	3.81	5.49
7/19/86	4.51	4.45	4.24	3.89	3.78	5.50
7/20/86	4.58	4.41	4.22	3.81	3.77	5.54
7/21/86	4.58	4.37	4.21	3.93	3.76	5.57
7/22/86	4.58	4.37	4.19	3.88	3.75	5.57
7/23/86	4.58	4.37	4.20	3.91	3.74	5.66
7/24/86	4.66	4.44	4.27	4.15	3.73	5.64
7/25/86	4.63	4.61	4.36	4.39	3.77	5.56
7/26/86	4.74	4.64	4.39	4.17	3.83	5.70
7/27/86	5.10	4.62	4.34	3.94	3.83	5.74
7/28/86	5.11	4.61	4.34	3.85	3.81	5.71
7/29/86	4.92	4.67	4.47	3.55	3.77	5.56

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
7/30/86	4.65	4.67	4.44	3.40	3.68	5.49
7/31/86	4.50	4.62	4.37	3.29	3.59	5.39
8/ 1/86	4.39	4.55	4.29	3.22	3.50	5.36
8/ 2/86	4.34	4.50	4.23	3.17	3.44	5.35
8/ 3/86	4.32	4.42	4.15	3.10	3.36	5.34
8/ 4/86	4.32	4.34	4.12	4.25	3.44	5.35
8/ 5/86	4.33	4.43	4.33	3.82	3.57	5.38
8/ 6/86	4.32	4.44	4.34	3.44	3.58	5.34
8/ 7/86	4.23	4.41	4.27	3.31	3.55	5.30
8/ 8/86	4.32	4.35	4.19	3.23	3.48	5.28
8/ 9/86	4.43	4.28	4.08	3.34	3.42	5.45
8/10/86	4.53	4.20	4.04	3.38	3.42	5.56
8/11/86	4.92	4.26	4.14	3.43	3.43	5.67
8/12/86	4.38	4.37	4.27	3.25	3.42	5.53
8/13/86	4.36	4.40	4.25	3.17	3.39	5.47
8/14/86	4.31	4.37	4.19	3.12	3.34	5.47
8/15/86	4.35	4.33	4.14	3.07	3.29	5.43
8/16/86	4.93	4.72	4.10	3.57	3.37	5.51
8/17/86	5.03	5.16	4.33	3.64	3.66	5.68
8/18/86	5.20	5.46	4.75	3.68	3.92	5.72
8/19/86	5.21	5.48	4.99	3.69	4.07	5.76
8/20/86	5.13	5.46	4.98	3.67	4.12	5.76
8/21/86	5.06	5.39	4.90	3.55	4.11	5.74
8/22/86	4.96	5.28	4.83	3.51	4.04	5.71
8/23/86	4.90	5.19	4.76	3.43	3.98	5.68
8/24/86	4.86	5.09	4.68	3.35	3.89	5.71
8/25/86	4.83	4.98	4.65	3.31	3.80	5.72
8/26/86	4.70	4.95	4.67	3.31	3.74	5.69
8/27/86	4.66	4.87	4.57	3.25	3.67	5.65
8/28/86	4.68	4.78	4.48	3.19	3.59	5.60
8/29/86	4.65	4.72	4.41	3.14	3.53	5.59
8/30/86	4.56	4.65	4.35	3.08	3.45	5.53
8/31/86	4.48	4.58	4.30	3.14	3.38	5.49
9/ 1/86	4.42	4.54	4.27	3.12	3.38	5.42
9/ 2/86	4.36	4.50	4.23	3.62	3.35	5.36
9/ 3/86	4.32	4.46	4.28	4.14	3.48	5.33
9/ 4/86	4.30	4.46	4.39	4.15	3.59	5.34
9/ 5/86	4.29	4.50	4.57	4.16	3.68	5.45
9/ 6/86	4.27	4.51	4.61	3.94	3.92	5.54
9/ 7/86	4.34	4.63	4.87	5.34	4.15	5.61
9/ 8/86	4.39	4.75	4.96	5.82	4.80	5.65
9/ 9/86	4.43	4.83	5.01	4.43	4.81	5.71
9/10/86	4.43	4.85	4.94	3.84	4.61	5.66
9/11/86	4.43	4.84	4.84	3.62	4.37	5.61
9/12/86	4.40	4.80	4.73	3.47	4.18	5.54
9/13/86	4.37	4.75	4.63	3.39	4.00	5.48
9/14/86	4.34	4.69	4.53	3.34	3.87	5.41
9/15/86	4.29	4.61	4.46	3.29	3.76	5.35

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
9/16/86	4.25	4.54	4.37	3.52	3.65	5.34
9/17/86	4.23	4.48	4.31	3.53	3.59	5.32
9/18/86	4.20	4.41	4.28	3.48	3.57	5.29
9/19/86	4.23	4.35	4.21	3.50	3.54	5.36
9/20/86	4.38	4.27	4.15	3.51	3.52	5.49
9/21/86	4.50	4.24	4.45	3.99	3.97	5.63
9/22/86	4.63	4.25	4.38	4.02	4.04	5.71
9/23/86	4.69	4.29	4.30	3.97	4.05	5.71
9/24/86	4.81	4.31	4.29	3.87	4.07	5.70
9/25/86	4.82	4.33	4.27	3.76	4.04	5.67
9/26/86	4.77	4.34	4.27	3.94	3.93	5.67
9/27/86	4.76	4.33	4.26	3.82	3.87	5.65
9/28/86	4.74	4.33	4.25	3.92	3.81	5.65
9/29/86	4.74	4.32	4.21	3.82	3.77	5.65
9/30/86	4.80	4.30	4.14	3.82	3.72	5.70
10/ 1/86	4.83	4.27	4.11	3.86	3.67	5.69
10/ 2/86	4.83	4.29	4.14	3.83	3.64	5.65
10/ 3/86	4.77	4.28	4.13	3.85	3.60	5.63
10/ 4/86	4.74	4.27	4.12	3.85	3.58	5.60
10/ 5/86	4.71	4.26	4.11	3.74	3.55	5.58
10/ 6/86	4.69	4.24	4.10	3.74	3.53	5.58
10/ 7/86	4.70	4.21	4.04	3.66	3.49	5.61
10/ 8/86	4.70	4.15	3.96	3.58	3.43	5.61
10/ 9/86	4.69	4.11	3.90	3.52	3.38	5.60
10/10/86	4.71	4.06	3.89	3.42	3.33	5.62
10/11/86	4.73	4.05	3.91	3.34	3.29	5.65
10/12/86	4.73	4.04	3.92	3.31	3.25	5.64
10/13/86	4.73	4.03	3.90	3.29	3.22	5.64
10/14/86	4.73	3.99	3.88	3.21	3.17	5.62
10/15/86	4.72	3.97	3.85	3.47	3.14	5.66
10/16/86	4.74	3.97	3.88	3.49	3.16	5.72
10/17/86	4.79	3.99	3.91	3.44	3.18	5.71
10/18/86	4.77	3.97	3.86	3.31	3.16	5.68
10/19/86	4.78	3.95	3.82	3.35	3.13	5.66
10/20/86	4.77	3.94	3.80	3.37	3.14	5.65
10/21/86	4.75	3.92	3.78	3.33	3.13	5.63
10/22/86	4.74	3.90	3.76	3.28	3.11	5.61
10/23/86	4.72	3.87	3.75	3.21	3.07	5.58
10/24/86	4.71	3.86	3.74	3.14	3.02	5.57
10/25/86	4.70	3.84	3.72	3.09	2.98	5.55
10/26/86	4.68	3.83	3.71	3.06	2.94	5.53
10/27/86	4.67	3.81	3.69	3.04	2.91	5.51
10/28/86	4.67	3.77	3.67	3.07	2.86	5.54
10/29/86	4.71	3.83	3.85	3.39	2.97	5.58
10/30/86	4.71	3.87	3.95	3.36	3.04	5.48
10/31/86	4.68	3.89	3.95	3.37	3.07	5.40
11/ 1/86	4.65	3.90	3.95	3.31	3.09	5.38
11/ 2/86	4.62	3.91	3.96	3.31	3.11	5.36

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
11/ 3/86	4.61	3.91	3.98	3.32	3.12	5.34
11/ 4/86	4.62	3.88	3.94	3.24	3.10	5.37
11/ 5/86	4.63	3.88	3.88	3.21	3.09	5.39
11/ 6/86	4.64	3.88	3.86	3.20	3.10	5.39
11/ 7/86	4.64	3.89	3.83	3.19	3.11	5.38
11/ 8/86	4.63	3.92	3.79	3.16	3.10	5.36
11/ 9/86	4.63	3.93	3.77	3.16	3.07	5.38
11/10/86	4.63	3.94	3.76	3.15	3.07	5.37
11/11/86	4.62	3.96	3.78	3.12	3.05	5.35
11/12/86	4.61	3.97	3.77	3.11	3.03	5.33
11/13/86	4.61	3.99	3.77	3.15	3.04	5.30
11/14/86	4.64	4.01	3.80	3.23	3.07	5.40
11/15/86	4.74	4.05	3.86	3.31	3.12	5.50
11/16/86	4.74	4.09	3.91	3.34	3.16	5.49
11/17/86	4.73	4.12	3.94	3.35	3.18	5.49
11/18/86	4.73	4.13	3.96	3.35	3.18	5.49
11/19/86	4.73	4.15	3.95	3.34	3.19	5.49
11/20/86	4.73	4.15	3.95	3.34	3.18	5.47
11/21/86	4.72	4.14	3.93	3.31	3.16	5.46
11/22/86	5.22	4.21	3.94	3.31	3.19	5.59
11/23/86	5.22	4.26	3.94	3.24	3.24	5.72
11/24/86	5.07	4.27	3.93	3.20	3.25	5.68
11/25/86	4.98	4.30	3.98	3.33	3.27	5.65
11/26/86	4.94	4.30	3.99	3.23	3.27	5.60
11/27/86	4.90	4.30	4.00	3.34	3.25	5.56
11/28/86	4.88	4.31	4.04	3.38	3.25	5.56
11/29/86	4.93	4.41	4.21	3.69	3.46	5.56
11/30/86	4.88	4.43	4.27	3.49	3.50	5.40
12/ 1/86	4.78	4.41	4.17	3.51	3.50	5.43
12/ 2/86	4.70	4.41	4.16	3.52	3.55	5.41
12/ 3/86	4.65	4.41	4.12	3.45	3.55	5.39
12/ 4/86	4.59	4.38	4.14	3.43	3.55	5.44
12/ 5/86	4.58	4.38	4.16	3.43	3.54	5.47
12/ 6/86	4.60	4.36	4.16	3.41	3.52	5.47
12/ 7/86	4.61	4.36	4.17	3.43	3.50	5.48
12/ 8/86	4.61	4.35	4.11	3.39	3.47	5.45
12/ 9/86	4.59	4.32	4.09	3.39	3.44	5.43
12/10/86	4.56	4.30	4.05	3.38	3.41	5.43
12/11/86	4.54	4.25	4.01	3.35	3.38	5.51
12/12/86	4.54	4.23	4.00	3.33	3.35	5.52
12/13/86	4.54	4.19	3.97	3.31	3.33	5.47
12/14/86	4.52	4.17	3.93	3.29	3.30	5.42
12/15/86	4.50	4.14	3.91	3.27	3.27	5.40
12/16/86	4.47	4.10	3.92	3.21	3.24	5.40
12/17/86	4.45	4.07	3.91	3.22	3.22	5.38
12/18/86	4.40	4.03	3.90	3.21	3.20	5.38
12/19/86	4.38	4.01	3.88	3.20	3.18	5.37
12/20/86	4.36	3.98	3.86	3.18	3.17	5.36

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
12/21/86	4.33	3.96	3.84	3.17	3.14	5.33
12/22/86	4.31	3.93	3.82	3.15	3.12	5.31
12/23/86	4.29	3.91	3.80	3.11	3.08	5.31
12/24/86	4.28	3.91	3.82	3.56	3.19	5.40
12/25/86	4.29	3.94	3.93	3.37	3.30	5.29
12/26/86	4.29	3.95	3.95	3.35	3.34	5.29
12/27/86	4.36	3.94	3.72	3.10	3.30	5.49
12/28/86	4.49	3.85	3.69	3.18	3.23	5.60
12/29/86	4.49	3.88	3.74	3.20	3.25	5.59
12/30/86	4.49	3.88	3.73	3.20	3.25	5.57
12/31/86	4.52	3.88	3.73	3.40	3.24	5.61
1/ 1/87	5.32	4.05	4.20	3.76	3.44	5.70
1/ 2/87	5.15	4.17	4.23	3.38	3.53	5.46
1/ 3/87	4.87	4.25	4.33	3.32	3.55	5.14
1/ 4/87	4.59	4.27	4.32	3.50	3.56	5.09
1/ 5/87	4.51	4.30	4.39	3.45	3.62	5.02
1/ 6/87	4.45	4.30	4.36	3.31	3.62	4.89
1/ 7/87	4.34	4.30	4.27	3.33	3.61	4.89
1/ 8/87	4.39	4.25	4.17	3.43	3.58	5.03
1/ 9/87	4.43	4.21	4.12	3.45	3.55	5.08
1/10/87	4.47	4.19	4.08	3.35	3.51	5.10
1/11/87	4.48	4.16	4.02	3.26	3.45	5.11
1/12/87	4.48	4.13	3.98	3.29	3.40	5.09
1/13/87	4.48	4.10	3.92	3.29	3.35	5.07
1/14/87	4.47	4.02	3.89	3.29	3.31	5.06
1/15/87	4.45	4.01	3.89	3.27	3.28	5.05
1/16/87	4.43	3.99	3.90	3.24	3.25	5.01
1/17/87	4.39	3.98	3.91	3.23	3.23	5.02
1/18/87	4.39	3.97	3.90	3.21	3.23	5.01
1/19/87	4.39	3.96	3.88	3.20	3.23	5.01
1/20/87	4.37	3.94	3.86	3.17	3.20	4.99
1/21/87	4.35	3.93	3.85	3.14	3.18	5.01
1/22/87	4.35	3.91	3.84	3.15	3.16	5.04
1/23/87	4.35	3.90	3.83	3.15	3.14	5.06
1/24/87	4.35	3.88	3.83	3.14	3.14	5.11
1/25/87	4.40	3.87	3.84	3.15	3.13	5.17
1/26/87	4.42	3.88	3.86	3.17	3.13	5.18
1/27/87	4.42	3.88	3.87	3.19	3.13	5.14
1/28/87	4.39	3.86	3.84	3.18	3.12	5.12
1/29/87	4.38	3.83	3.84	3.16	3.08	5.11
1/30/87	4.38	3.83	3.83	3.17	3.08	5.11
1/31/87	4.38	3.84	3.83	3.17	3.09	5.09
2/ 1/87	4.38	3.84	3.82	3.16	3.09	5.08
2/ 2/87	4.38	3.84	3.81	3.16	3.09	5.09
2/ 3/87	4.37	3.83	3.79	3.14	3.08	5.05
2/ 4/87	4.34	3.85	3.77	3.07	3.06	4.94
2/ 5/87	4.32	3.85	3.73	3.06	3.03	5.03
2/ 6/87	4.33	3.84	3.67	2.99	3.01	4.98

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
2/ 7/87	4.41	3.81	3.62	2.95	2.99	5.00
2/ 8/87	4.42	3.80	3.58	2.94	2.98	4.98
2/ 9/87	4.41	3.78	3.57	2.95	2.97	4.97
2/10/87	4.37	3.80	3.59	2.99	2.92	5.03
2/11/87	4.36	3.82	3.63	3.01	2.87	5.04
2/12/87	4.35	3.83	3.65	3.01	2.87	5.02
2/13/87	4.34	3.84	3.66	3.01	2.94	5.00
2/14/87	4.32	3.84	3.65	3.00	2.99	5.00
2/15/87	4.32	3.83	3.63	3.00	3.02	5.03
2/16/87	4.33	3.84	3.63	3.02	3.05	5.07
2/17/87	4.33	3.84	3.63	3.01	3.06	5.03
2/18/87	4.33	3.85	3.64	3.03	3.08	5.04
2/19/87	4.33	3.86	3.66	3.04	3.10	5.01
2/20/87	4.32	3.87	3.67	3.04	3.10	4.99
2/21/87	4.31	3.86	3.66	3.02	3.10	5.00
2/22/87	4.31	3.85	3.65	3.00	3.09	5.00
2/23/87	4.31	3.84	3.64	2.98	3.08	4.97
2/24/87	4.29	3.82	3.62	2.97	3.05	4.97
2/25/87	4.28	3.82	3.61	2.99	3.04	5.04
2/26/87	4.30	3.81	3.62	3.02	3.05	5.05
2/27/87	4.30	3.81	3.62	3.01	3.05	5.04
2/28/87	4.30	3.81	3.61	3.00	3.04	5.02
3/ 1/87	4.30	3.80	3.61	2.98	3.03	5.03
3/ 2/87	4.39	3.81	3.62	3.22	3.06	5.19
3/ 3/87	4.49	3.88	3.73	3.26	3.19	5.23
3/ 4/87	4.50	3.94	3.83	3.26	3.25	5.20
3/ 5/87	4.51	3.97	3.87	3.25	3.28	5.15
3/ 6/87	4.50	3.97	3.80	3.30	3.27	5.03
3/ 7/87	5.02	4.16	4.13	3.89	3.54	5.53
3/ 8/87	4.94	4.33	4.42	3.58	3.69	5.28
3/ 9/87	4.66	4.36	4.35	3.35	3.69	5.13
3/10/87	4.53	4.35	4.19	3.22	3.65	5.13
3/11/87	4.47	4.28	4.13	3.31	3.60	5.26
3/12/87	4.44	4.24	4.09	3.32	3.58	5.30
3/13/87	4.41	4.21	4.07	3.32	3.54	5.28
3/14/87	4.46	4.18	4.03	3.30	3.51	5.19
3/15/87	4.47	4.15	3.99	3.27	3.47	5.16
3/16/87	4.47	4.12	3.92	3.25	3.44	5.13
3/17/87	4.47	4.07	3.87	3.19	3.38	5.11
3/18/87	4.45	4.03	3.82	3.14	3.32	5.06
3/19/87	4.40	3.98	3.80	3.12	3.28	5.02
3/20/87	4.36	3.97	3.79	3.14	3.24	4.97
3/21/87	4.32	3.95	3.78	3.16	3.23	4.94
3/22/87	4.30	3.93	3.75	3.14	3.23	4.93
3/23/87	4.30	3.92	3.77	3.27	3.23	5.04
3/24/87	4.43	3.94	3.85	3.35	3.28	5.17
3/25/87	4.52	3.96	3.89	3.30	3.33	5.27
3/26/87	4.54	3.97	3.84	3.13	3.33	5.28

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855 USGS	G-757A USGS	Humble WMD	G-789 USGS	S-196A USGS	Krome WMD
3/27/87	4.57	3.96	3.77	3.15	3.31	5.34
3/28/87	4.57	3.94	3.71	3.14	3.27	5.31
3/29/87	4.57	3.93	3.66	3.11	3.24	5.29
3/30/87	4.57	3.90	3.62	3.07	3.21	5.27
3/31/87	4.65	3.87	3.59	3.13	3.16	5.50
4/ 1/87	4.67	3.91	3.67	3.13	3.17	5.40
4/ 2/87	4.67	3.93	3.70	3.13	3.17	5.33
4/ 3/87	4.62	3.93	3.70	3.12	3.17	5.27
4/ 4/87	4.59	3.92	3.69	3.07	3.15	5.21
4/ 5/87	4.56	3.91	3.66	3.02	3.12	5.17
4/ 6/87	4.53	3.89	3.63	2.99	3.11	5.15
4/ 7/87	4.50	3.86	3.64	3.01	3.06	5.13
4/ 8/87	4.48	3.87	3.65	3.05	3.07	5.13
4/ 9/87	4.44	3.85	3.64	3.04	3.05	5.14
4/10/87	4.44	3.83	3.62	3.02	3.04	5.13
4/11/87	4.42	3.81	3.59	2.98	3.02	5.11
4/12/87	4.40	3.79	3.57	2.96	3.00	5.11
4/13/87	4.40	3.78	3.53	2.94	2.98	5.11
4/14/87	4.38	3.76	3.55	2.96	2.96	5.11
4/15/87	4.36	3.77	3.58	2.96	2.96	5.18
4/16/87	4.36	3.76	3.59	2.96	2.97	5.17
4/17/87	4.35	3.74	3.60	2.96	2.95	5.18
4/18/87	4.35	3.73	3.61	2.95	2.95	5.17
4/19/87	4.35	3.73	3.61	2.93	2.94	5.16
4/20/87	4.35	3.72	3.61	2.92	2.93	5.14
4/21/87	4.33	3.71	3.58	2.94	2.91	5.16
4/22/87	4.33	3.70	3.59	2.96	2.91	5.15
4/23/87	4.31	3.72	3.57	2.94	2.89	5.13
4/24/87	4.31	3.72	3.55	2.94	2.88	5.11
4/25/87	4.30	3.71	3.54	2.90	2.86	5.09
4/26/87	4.29	3.71	3.53	2.88	2.84	5.08
4/27/87	4.28	3.71	3.51	2.88	2.84	5.12
4/28/87	4.29	3.70	3.53	2.90	2.81	5.18
4/29/87	4.29	3.68	3.52	2.87	2.79	5.18
4/30/87	4.29	3.68	3.51	2.98	2.77	5.12
5/ 1/87	4.25	3.77	3.71	3.15	2.81	4.95
5/ 2/87	4.11	3.83	3.83	3.23	2.86	4.89
5/ 3/87	4.02	3.86	3.90	3.30	2.91	4.85
5/ 4/87	3.94	3.89	3.93	3.32	2.94	4.82
5/ 5/87	3.83	3.89	3.96	3.34	2.97	4.77
5/ 6/87	3.78	3.89	3.94	3.35	2.98	4.76
5/ 7/87	3.74	3.87	4.01	3.39	3.05	4.70
5/ 8/87	3.77	3.90	4.08	3.43	3.19	4.70
5/ 9/87	3.86	3.87	3.90	3.42	3.27	4.58
5/10/87	3.98	3.80	3.93	3.87	3.36	4.61
5/11/87	4.63	3.82	3.91	3.81	3.46	4.93
5/12/87	4.94	3.88	3.90	3.72	3.51	5.00
5/13/87	4.86	3.95	3.89	3.94	4.29	5.00

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
5/14/87	4.74	4.05	3.98	3.91	4.30	5.00
5/15/87	4.70	4.10	4.02	3.81	4.17	4.97
5/16/87	4.65	4.16	4.05	3.95	4.05	4.96
5/17/87	4.63	4.18	4.07	3.93	4.00	4.92
5/18/87	4.58	4.18	4.05	3.87	3.93	4.93
5/19/87	4.55	4.18	4.04	3.74	3.85	4.88
5/20/87	4.52	4.17	4.03	3.67	3.79	4.84
5/21/87	4.49	4.14	4.00	3.59	3.73	4.79
5/22/87	4.44	4.10	3.92	3.50	3.66	4.74
5/23/87	4.37	4.06	3.87	3.42	3.58	4.70
5/24/87	4.32	4.01	3.82	3.35	3.50	4.65
5/25/87	4.28	3.97	3.76	3.28	3.43	4.66
5/26/87	4.24	3.92	3.70	3.22	3.35	4.59
5/27/87	4.19	3.87	3.64	3.12	3.26	4.54
5/28/87	4.14	3.81	3.58	3.04	3.21	4.56
5/29/87	4.10	3.76	3.52	3.01	3.14	4.53
5/30/87	4.08	3.70	3.49	3.00	3.11	4.48
5/31/87	4.06	3.68	3.45	2.95	3.05	4.42
6/ 1/87	4.03	3.64	3.43	2.91	3.03	4.39
6/ 2/87	3.99	3.60	3.39	2.90	2.98	4.45
6/ 3/87	3.97	3.57	3.41	2.93	2.94	4.54
6/ 4/87	3.97	3.58	3.45	2.92	2.91	4.55
6/ 5/87	3.97	3.58	3.45	2.90	2.87	4.53
6/ 6/87	3.97	3.56	3.44	2.87	2.83	4.51
6/ 7/87	3.99	3.55	3.45	2.84	2.80	4.67
6/ 8/87	4.05	3.56	3.48	2.83	2.77	4.63
6/ 9/87	4.15	3.57	3.51	2.86	2.74	4.59
6/10/87	4.18	3.59	3.59	2.86	2.88	4.61
6/11/87	4.18	3.61	3.57	2.85	2.92	4.63
6/12/87	4.16	3.62	3.53	2.86	2.93	4.67
6/13/87	4.14	3.61	3.50	2.85	2.93	4.66
6/14/87	4.19	3.60	3.47	2.83	2.92	4.68
6/15/87	4.20	3.60	3.49	2.83	2.91	4.76
6/16/87	4.21	3.60	3.49	2.82	2.88	4.83
6/17/87	4.21	3.60	3.47	2.80	2.87	4.81
6/18/87	4.21	3.61	3.46	2.78	2.84	4.77
6/19/87	4.18	3.61	3.44	2.76	2.82	4.74
6/20/87	4.17	3.60	3.42	2.77	2.80	4.71
6/21/87	4.14	3.59	3.40	2.76	2.79	4.67
6/22/87	4.10	3.58	3.37	2.73	2.77	4.69
6/23/87	4.07	3.61	3.40	2.95	2.75	4.62
6/24/87	4.02	3.82	3.68	3.16	2.84	4.53
6/25/87	3.91	3.87	3.80	3.22	2.92	4.58
6/26/87	3.86	3.87	3.68	3.22	3.01	4.59
6/27/87	5.10	3.94	4.03	3.73	3.18	4.95
6/28/87	5.30	4.35	4.66	4.21	3.27	5.55
6/29/87	5.43	4.58	4.73	4.29	M	5.32
6/30/87	5.27	4.62	4.70	4.00	M	5.11

Table D.7 Average Daily Water Levels (ft. NGVD), East of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-855	G-757A	Humble	G-789	S-196A	Krome
	USGS	USGS	WMD	USGS	USGS	WMD
7/ 1/87	4.87	4.59	4.50	3.94	M	4.90
7/ 2/87	4.60	4.52	4.44	3.87	M	4.71
7/ 3/87	4.49	4.47	4.32	3.86	M	4.60
7/ 4/87	4.36	4.37	4.33	3.95	M	4.49
7/ 5/87	4.26	4.32	4.28 E	3.96	M	4.42
7/ 6/87	4.17	4.25	4.14 E	3.78	M	4.50
7/ 7/87	4.12	4.16	4.10	3.65	M	4.47
7/ 8/87	4.07	4.12	4.04	3.55	M	4.45
7/ 9/87	3.97	4.05	3.95	3.48	M	4.39
7/10/87	3.92	3.98	3.86	3.40	M	4.35
7/11/87	3.86	3.91	3.78	3.32	M	4.28

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
7/11/85	5.27	5.16	6.17		M 6.05	5.76	4.71	M	M
7/12/85	5.27	5.16	6.07		M 6.02	5.57	4.66	M	M
7/13/85	5.22	5.14	6.00		M 5.96	5.54	4.60	M	M
7/14/85	5.19	5.17	6.03		M 6.04	5.62	4.55	M	M
7/15/85	5.21	5.13	6.03		M 6.05	5.70	4.50	M	M
7/16/85	5.20	5.97	6.01		M 6.03	5.58	4.41	M	M
7/17/85	5.18	5.79	6.02		M 6.03	5.55	4.43	M	M
7/18/85	5.18	5.22	6.01		M 6.06	5.51	4.48	M	M
7/19/85	5.16	5.14	6.17		M 6.19	5.54	4.49	M	M
7/20/85	5.31	5.10	6.24		M 6.25	5.97	4.69	M	M
7/21/85	5.37	5.11	6.25		M 6.25	6.07	4.82	M	M
7/22/85	5.31	5.02	6.28		M 6.26	5.95	4.88	M	M
7/23/85	6.03	6.33	6.65		M 6.65	6.50	5.69	M	M
7/24/85	6.29	6.27	6.64		M 6.64	6.74	5.70	M	M
7/25/85	6.29	5.65	6.61		M 6.62	6.62	5.47	M	M
7/26/85	5.96	5.13	6.57		M 6.58	6.47	5.33	M	M
7/27/85	5.66	5.02	6.54		M 6.55	6.33	5.14	M	M
7/28/85	5.44	4.93	6.50		M 6.51	6.17	4.93	M	M
7/29/85	5.27	5.08	6.46		M 6.45	5.99	4.74	M	M
7/30/85	5.16	5.29	6.40		M 6.40	5.86 P	4.75	M	M
7/31/85	5.12	5.21	6.36		M 6.28	5.81	4.73	M	M
8/ 1/85	5.24	5.35	6.35		M 6.26	6.00	4.83	M	M
8/ 2/85	5.38	5.48	6.35		M 6.26	6.09	4.94	M	M
8/ 3/85	5.36	5.32	6.42		M 6.25	5.98	4.94	M	M
8/ 4/85	5.27	5.27	6.41		M 6.25	5.92	4.88	M	M
8/ 5/85	5.20	5.18	6.34		M 6.23	5.80	5.04	M	M
8/ 6/85	5.11	5.16	6.29		M 6.17	5.72	5.29	M	M
8/ 7/85	5.13	5.36	6.25		M 6.12	5.65	5.12	M	M
8/ 8/85	5.26	5.51	6.20		M 6.08	5.52 P	4.83	M	M
8/ 9/85	5.26	5.31	6.15		M 6.02	5.53	4.72	M	M
8/10/85	5.29	5.27	6.15		M 6.01	5.65	4.62	M	M
8/11/85	5.40	5.86	6.31		M 6.38	5.97	4.54	M	M
8/12/85	5.51	5.50	6.34		M 6.32	6.15	4.59	M	M
8/13/85	5.46	5.45	6.34		M 6.30	5.96	4.58	M	M
8/14/85	5.36	5.34	6.31		M 6.27	5.81	4.55	M	M
8/15/85	5.24	5.29	6.27		M 6.23	5.68	4.60	M	M
8/16/85	5.19	5.34	6.23		M 6.18	5.57	4.55	M	M
8/17/85	5.20	5.25	6.31		M 6.21	5.58	4.51	M	M
8/18/85	5.22	5.27	6.41		M 6.21	5.64	4.55	M	M
8/19/85	5.23	5.43	6.57		M 6.51	5.62	4.63	M	M
8/20/85	5.24	5.56	6.47		M 6.47	5.66	4.52	M	M
8/21/85	5.28	5.56	6.46		M 6.39	5.65	4.48	M	M
8/22/85	5.28	5.59	6.38		M 6.31	5.60	4.48	M	M
8/23/85	5.26	5.55	6.34		M 6.27	5.55	4.42	M	M
8/24/85	5.30	5.64	6.28		M 6.21	5.50	4.33	M	M
8/25/85	5.41	5.71	6.23		M 6.16	5.47	4.23	M	M
8/26/85	5.44	5.74	6.17		M 6.10	5.41	4.21	M	M
8/27/85	5.43	5.50	6.11		M 6.04	5.40	4.28	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596	G-1487	G-1502	G-3272	G-3273	Angel	Rutzke	Mitchell	200th St
	USGS	USGS	USGS	USGS	USGS	WMD	WMD	WMD	WMD
8/28/85	5.39	5.60	6.15	M	6.07	5.45	4.37	M	M
8/29/85	5.63	6.26	6.17	M	6.14	5.80	4.51	M	M
8/30/85	5.67	5.96	6.16	M	6.14	5.76	4.53	M	M
8/31/85	5.60	6.00	6.14	M	6.12	5.66	4.51	M	M
9/ 1/85	5.50	5.15	6.11	M	6.09	5.59	4.66	M	M
9/ 2/85	5.21	5.34	6.07	M	6.05	5.53	4.76	M	M
9/ 3/85	5.19	5.71	6.07	M	6.04	5.47	4.58	M	M
9/ 4/85	5.31	5.69	6.07	M	6.03	5.45	4.46	M	M
9/ 5/85	5.39	5.71	6.05	M	6.02	5.43	4.43	M	M
9/ 6/85	5.55	5.96	6.04	M	6.01	5.44	4.34	M	M
9/ 7/85	5.63	5.90	6.03	M	6.01	5.50	4.33	M	M
9/ 8/85	5.71	6.02	6.16	M	6.14	5.61	4.45	M	M
9/ 9/85	5.75	5.97	6.18	M	6.17	5.77	4.64	M	M
9/10/85	5.69	6.02	6.17	M	6.17	5.73	4.61	M	M
9/11/85	5.59	5.64	6.34	M	6.29	5.83	4.89	M	M
9/12/85	5.56	5.89	6.34	M	6.32	6.03	4.81	M	M
9/13/85	5.54	5.09	6.34	M	6.34	5.96	4.82	M	M
9/14/85	5.32	4.84	6.35	M	6.37	5.91	4.95	M	M
9/15/85	5.12	4.70	6.36	M	6.38	5.86	4.97	M	M
9/16/85	5.01	5.03	6.79	M	6.61	6.11	5.10	M	M
9/17/85	5.33	5.57	6.79	M	6.72	6.50	5.25	M	M
9/18/85	5.78	6.25	6.82	M	6.79	6.55	5.43	M	M
9/19/85	6.28	6.46	6.94	M	6.89	6.67	5.17	M	M
9/20/85	6.48	6.54	6.94	M	6.96	6.85	5.12	M	M
9/21/85	6.48	6.46	6.93	M	6.96	6.85	5.02	M	M
9/22/85	6.37	6.08	6.91	M	6.96	6.80	5.01	M	M
9/23/85	6.14	5.76	6.89	M	6.93	6.73	4.96	M	M
9/24/85	5.95	5.44	6.86	M	6.89	6.64	4.97	M	M
9/25/85	5.73	5.39	6.82	M	6.86	6.56	4.95	M	M
9/26/85	5.62	5.12	6.78	M	6.82	6.48	4.95	M	M
9/27/85	5.45	4.99	6.75	M	6.80	6.41	4.94	M	M
9/28/85	5.32	5.03	6.72	M	6.75	6.31	4.87	M	M
9/29/85	5.29	5.05	6.69	M	6.72	6.19	4.89	M	M
9/30/85	5.33	5.15	6.69	M	6.70	6.21	4.87	M	M
10/ 1/85	5.34	5.14	6.67	M	6.70	6.19	4.86	M	M
10/ 2/85	5.30	4.96	6.64	M	6.67	6.10	4.79	M	M
10/ 3/85	5.24	4.95	6.61	M	6.62	6.01	4.71	M	M
10/ 4/85	5.19	4.97	6.63	M	6.68	5.96	4.81	M	M
10/ 5/85	5.18	4.97	6.65	M	6.68	6.01	5.20	M	M
10/ 6/85	5.22	5.21	6.68	M	6.73	6.04	5.16	M	M
10/ 7/85	5.50	5.25	6.69	M	6.74	6.25	5.25	M	M
10/ 8/85	5.43	5.25	6.69	M	6.74	6.18	5.06	M	M
10/ 9/85	5.41	5.12	6.67	M	6.73	6.09	4.90	M	M
10/10/85	5.33	4.98	6.66	M	6.71	6.02	4.81	M	M
10/11/85	5.21	5.05	6.64	M	6.68	5.94	4.70	M	M
10/12/85	5.17	5.11	6.61	M	6.66	5.88	4.61	M	M
10/13/85	5.17	5.00	6.59	M	6.63	5.82	4.56	M	M
10/14/85	5.11	5.07	6.56	M	6.60	5.74	4.34	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
10/15/85	5.12	5.08	6.53		M 6.57	5.69	4.19	M	M
10/16/85	5.12	5.09	6.50		M 6.54	5.67	4.09	M	M
10/17/85	5.12	5.22	6.48		M 6.51	5.64	4.05	M	M
10/18/85	5.17	5.30	6.45		M 6.48	5.60	4.03	M	M
10/19/85	5.23	5.39	6.47		M 6.46	5.63	4.07	M	M
10/20/85	5.50	5.48	6.47		M 6.48	5.80	4.32	M	M
10/21/85	5.50	5.50	6.45		M 6.47	5.76	4.27	M	M
10/22/85	5.37	5.37	6.45		M 6.46	5.75	4.30	M	M
10/23/85	5.29	5.42	6.45		M 6.44	5.70	4.18	M	M
10/24/85	5.27	5.10	6.45		M 6.48	5.80	4.26	M	M
10/25/85	5.24	4.99	6.45		M 6.47	5.79	4.28	M	M
10/26/85	5.17	4.94	6.45		M 6.45	5.73	4.28	M	M
10/27/85	5.09	4.89	6.68		M 6.66	5.76	4.43	M	M
10/28/85	5.07	4.90	6.63		M 6.64	5.85	4.50	M	M
10/29/85	5.07	5.17	6.60		M 6.62	5.81	4.38	M	M
10/30/85	5.17	5.33	6.57		M 6.60	5.75	4.13	M	M
10/31/85	5.24	5.43	6.54		M 6.57	5.71	3.98	M	M
11/ 1/85	5.29	5.43	6.50		M 6.54	5.68	3.94	M	M
11/ 2/85	5.30	5.43	6.47		M 6.51	5.64	3.91	M	M
11/ 3/85	5.31	5.43	6.46		M 6.49	5.61	3.88	M	M
11/ 4/85	5.32	5.46	6.43		M 6.48	5.63	3.91	M	M
11/ 5/85	5.32	5.49	6.41		M 6.47	5.60	3.94	M	M
11/ 6/85	5.32	5.49	6.41		M 6.44	5.57	3.92	M	M
11/ 7/85	5.32	5.48	6.39		M 6.41	5.54	3.91	M	M
11/ 8/85	5.30	5.46	6.38		M 6.40	5.52	3.91	M	M
11/ 9/85	5.28	5.45	6.34		M 6.36	5.50	3.89	M	M
11/10/85	5.26	5.44	6.32		M 6.34	5.49	3.88	M	M
11/11/85	5.27	5.55	6.30		M 6.32	5.47	3.88	M	M
11/12/85	5.32	5.83	6.29		M 6.31	5.48	3.89	M	M
11/13/85	5.43	5.88	6.28		M 6.30	5.48	3.92	M	M
11/14/85	5.47	5.83	6.28		M 6.30	5.48	3.99	M	M
11/15/85	5.47	5.74	6.26		M 6.28	5.49	4.06	M	M
11/16/85	5.46	5.62	6.25		M 6.27	5.49	4.09	M	M
11/17/85	5.43	5.62	6.24		M 6.26	5.48	4.11	M	M
11/18/85	5.41	5.59	6.23		M 6.24	5.47	3.98	M	M
11/19/85	5.42	5.59	6.37		M 6.34	5.75	3.98	M	M
11/20/85	5.52	5.60	6.38		M 6.43	5.92	4.48	M	M
11/21/85	5.52	5.42	6.39		M 6.43	5.82	4.16	M	M
11/22/85	5.45	5.34	6.41		M 6.44	5.80	4.13	M	M
11/23/85	5.42	5.31	6.41		M 6.45	5.86	4.11	M	M
11/24/85	5.40	5.31	6.40		M 6.45	5.76	4.04	M	M
11/25/85	5.34	5.27	6.38		M 6.45	5.68	4.01	M	M
11/26/85	5.27	5.26	6.35		M 6.44	5.63	4.14	M	M
11/27/85	5.25	5.41	6.33		M 6.42	5.58	4.16	M	M
11/28/85	5.28	5.49	6.31		M 6.40	5.56	4.08	M	M
11/29/85	5.33	5.52	6.29		M 6.36	5.53	4.04	M	M
11/30/85	5.36	5.53	6.27		M 6.34	5.51	4.01	M	M
12/ 1/85	5.37	5.54	6.25		M 6.32	5.49	3.99	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
12/ 2/85	5.37	5.55	6.22		M 6.30	5.47	3.95	M	M
12/ 3/85	5.37	5.55	6.19		M 6.28	5.45	3.92	M	M
12/ 4/85	5.37	5.55	6.20		M 6.28	5.47	3.93	M	M
12/ 5/85	5.43	5.56	6.28		M 6.35	5.62	4.08	M	M
12/ 6/85	5.44	5.48	6.28		M 6.35	5.70	4.23	M	M
12/ 7/85	5.43	5.34	6.26		M 6.34	5.64	3.95	M	M
12/ 8/85	5.35	5.20	6.23		M 6.31	5.54	3.80	M	M
12/ 9/85	5.27	5.24	6.20		M 6.28	5.45	3.74	M	M
12/10/85	5.18	5.30	6.17		M 6.26	5.41	3.82	M	M
12/11/85	5.19	5.33	6.13		M 6.22	5.38	3.85	M	M
12/12/85	5.20	5.34	6.09		M 6.17	5.35	3.85	M	M
12/13/85	5.21	5.34	6.06		M 6.14	5.33	3.84	M	M
12/14/85	5.20	5.35	6.04		M 6.10	5.32	3.85	M	M
12/15/85	5.18	5.35	6.02		M 6.07	5.31	3.86	M	M
12/16/85	5.20	5.35	5.98		M 6.04	5.28	3.84	M	M
12/17/85	5.19	5.36	6.02		M 6.06	5.30	3.87	M	M
12/18/85	5.22	5.36	6.02		M 6.06	5.31	3.86	M	M
12/19/85	5.21	5.36	6.00		M 6.04	5.28	3.84	M	M
12/20/85	5.19	5.33	5.96		M 6.02	5.24	3.82	M	M
12/21/85	5.18	5.31	5.92		M 6.00	5.20	3.79	M	M
12/22/85	5.13	5.29	5.88		M 5.96	5.17	3.77	M	M
12/23/85	5.10	5.27	5.87		M 5.92	5.16	3.76	M	M
12/24/85	5.08	5.25	5.89		M 5.94	5.16	3.79	M	M
12/25/85	5.12	5.29	5.91		M 5.95	5.27	4.04	M	M
12/26/85	5.12	5.29	5.89		M 5.94	5.25	3.99	M	M
12/27/85	5.12	5.28	5.84		M 5.89	5.19	3.89	M	M
12/28/85	5.13	5.30	5.91		M 5.95	5.29	3.95	M	M
12/29/85	5.20	5.30	5.92		M 5.95	5.44	4.06	M	M
12/30/85	5.21	5.30	5.92		M 5.95	5.35	4.02	M	M
12/31/85	5.21	5.30	5.88		M 5.92	5.28	3.98	M	M
1/ 1/86	5.20	5.29	5.85		M 5.89	5.23	3.95	M	M
1/ 2/86	5.17	5.27	5.81		M 5.87	5.19	3.92	M	M
1/ 3/86	5.14	5.24	5.78		M 5.84	5.16	3.88	M	M
1/ 4/86	5.11	5.21	5.74		M 5.80	5.13	3.85	M	M
1/ 5/86	5.09	5.19	5.71		M 5.77	5.11	3.82	M	M
1/ 6/86	5.07	5.18	5.69		M 5.75	5.08	3.79	M	M
1/ 7/86	5.04	5.16	5.64		M 5.72	5.06	3.78	M	M
1/ 8/86	5.03	5.40	5.63		M 5.71	5.08	4.02	M	M
1/ 9/86	5.16	5.60	5.78		M 5.84	5.39	4.40	M	M
1/10/86	5.41	5.61	6.17		M 6.23	5.91	4.59	M	M
1/11/86	5.47	5.61	6.19		M 6.25	5.92	4.58	M	M
1/12/86	5.47	5.58	6.19		M 6.25	5.82	4.23	M	M
1/13/86	5.49	5.46	6.19		M 6.25	5.80	4.17	M	M
1/14/86	5.48	5.38	6.19		M 6.25	5.66	4.18	M	M
1/15/86	5.42	5.33	6.14		M 6.20	5.56	4.15	M	M
1/16/86	5.35	5.37	6.07		M 6.15	5.49	4.14	M	M
1/17/86	5.30	5.41	6.04		M 6.10	5.43	4.15	M	M
1/18/86	5.32	5.43	6.00		M 6.06	5.41	4.18	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596	G-1487	G-1502	G-3272	G-3273	Angel	Rutzke	Mitchell	200th St
	USGS	USGS	USGS	USGS	USGS	WMD	WMD	WMD	WMD
1/19/86	5.32	5.43	5.98	M	6.04	5.40	4.19	M	M
1/20/86	5.32	5.43	5.95	M	6.01	5.36	4.18	M	M
1/21/86	5.31	5.42	5.91	M	5.98	5.30	4.14	M	M
1/22/86	5.29	5.33	5.89	M	5.90	5.27	4.12	M	M
1/23/86	5.26	5.32	5.86	M	5.87	5.25	4.07	M	M
1/24/86	5.24	5.29	5.82	M	5.84	5.21	4.04	M	M
1/25/86	5.22	5.27	5.78	M	5.81	5.18	4.02	M	M
1/26/86	5.20	5.25	5.74	M	5.76	5.16	4.00	M	M
1/27/86	5.18	5.24	5.70	M	5.73	5.14	3.98	M	M
1/28/86	5.15	5.20	5.66	M	5.70	5.10	3.92	M	M
1/29/86	5.11	5.16	5.60	M	5.66	5.06	3.79	M	M
1/30/86	5.07	5.12	5.58	M	5.63	5.02	3.81	M	M
1/31/86	5.05	5.10	5.51	M	5.58	4.98	3.78	M	M
2/ 1/86	5.02	5.08	5.48	M	5.56	4.95	3.76	M	M
2/ 2/86	4.99	5.07	5.45	M	5.53	4.92	3.74	M	M
2/ 3/86	4.97	5.06	5.40	M	5.49	4.88	3.71	M	M
2/ 4/86	4.94	5.03	5.37	M	5.44	4.85	3.66	M	M
2/ 5/86	4.92	5.01	5.32	M	5.40	4.83	3.62	M	M
2/ 6/86	4.89	4.94	5.29	M	5.36	4.80	3.59	M	M
2/ 7/86	4.86	5.02	5.25	M	5.32	4.77	3.58	M	M
2/ 8/86	4.85	5.03	5.24	M	5.30	4.76	3.55	M	M
2/ 9/86	4.86	5.03	5.20	M	5.28	4.74	3.52	M	M
2/10/86	4.86	5.00	5.16	M	5.27	4.72	3.49	M	M
2/11/86	4.84	4.96	5.12	M	5.24	4.70	3.47	M	M
2/12/86	4.82	4.93	5.09	M	5.13	4.68	3.47	M	M
2/13/86	4.79	4.91	5.07	M	5.12	4.66	3.47	M	M
2/14/86	4.76	4.87	5.02	M	5.06	4.64	3.45	M	M
2/15/86	4.73	4.84	4.97	M	5.02	4.60	3.43	M	M
2/16/86	4.70	4.81	4.93	M	4.99	4.56	3.41	M	M
2/17/86	4.67	4.78	4.89	M	4.97	4.52	3.38	M	M
2/18/86	4.75	5.25	5.63	M	5.72	4.79	3.52	M	M
2/19/86	4.96	5.24	5.63	M	5.72	5.07	3.72	M	M
2/20/86	5.02	5.19	5.58	M	5.67	5.06	3.72	M	M
2/21/86	5.03	5.14	5.49	M	5.60	5.01	3.70	M	M
2/22/86	5.03	5.08	5.43	M	5.54	4.95	3.66	M	M
2/23/86	5.01	5.05	5.36	M	5.46	4.90	3.62	M	M
2/24/86	4.97	5.01	5.30	M	5.38	4.84	3.59	M	M
2/25/86	4.93	4.96	5.26	M	5.32	4.78	3.54	M	M
2/26/86	4.88	4.96	5.20	M	5.25	4.70	3.47	M	M
2/27/86	4.82	4.91	5.12	M	5.13	4.65	3.41	M	M
2/28/86	4.75	4.80	5.06	M	5.06	4.60	3.38	M	M
3/ 1/86	4.68	4.71	5.01	M	5.01	4.55	3.37	M	M
3/ 2/86	4.70	4.66	4.94	M	4.96	4.49	3.34	M	M
3/ 3/86	4.54	4.63	4.88	M	4.92	4.43	3.28	M	M
3/ 4/86	4.48	4.69	4.83	M	4.87	4.38	3.35	M	M
3/ 5/86	4.48	4.73	4.78	M	4.84	4.37	3.38	M	M
3/ 6/86	4.48	4.73	4.74	M	4.80	4.37	3.40	M	M
3/ 7/86	4.49	4.73	4.71	M	4.74	4.36	3.40	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
3/ 8/86	4.49	4.72	4.68		M 4.72	4.33	3.40	M	M
3/ 9/86	4.48	4.72	4.63		M 4.68	4.31	3.40	M	M
3/10/86	4.74	5.80	5.79		M 5.80	4.79	3.63	M	M
3/11/86	5.33	5.79	5.79		M 5.80	5.66	4.11	M	M
3/12/86	5.37	5.42	5.72		M 5.77	5.46	4.24	M	M
3/13/86	5.36	5.39	5.81		M 5.80	5.36	4.28	M	M
3/14/86	5.34	5.39	5.81		M 5.79	5.32	4.27	M	M
3/15/86	5.31	5.37	5.74		M 5.73	5.26	4.15	M	M
3/16/86	5.27	5.34	5.66		M 5.68	5.20	4.13	M	M
3/17/86	5.22	5.31	5.62		M 5.64	5.14	4.12	M	M
3/18/86	5.19	5.29	5.55		M 5.59	5.08	4.09	M	M
3/19/86	5.15	5.25	5.48		M 5.53	5.04	4.05	M	M
3/20/86	5.11	5.21	5.40		M 5.45	4.99	4.01	M	M
3/21/86	5.11	5.32	5.70		M 5.69	5.15	4.21	M	M
3/22/86	5.16	5.32	5.69		M 5.68	5.22	4.17	M	M
3/23/86	5.17	5.30	5.60		M 5.60	5.13	4.07	M	M
3/24/86	5.15	5.23	5.53		M 5.54	5.06	3.99	M	M
3/25/86	5.12	5.18	5.45		M 5.47	5.00	3.95	M	M
3/26/86	5.64	5.99	6.16		M 6.20	5.81	4.55	M	M
3/27/86	6.08	5.98	6.48		M 6.58	6.46	4.70	M	M
3/28/86	6.23	5.83	6.43		M 6.56	6.72	4.74	M	M
3/29/86	6.19	5.50	6.42		M 6.52	6.60	4.59	M	M
3/30/86	5.95	5.30	6.42		M 6.48	6.45	4.54	M	M
3/31/86	5.73	5.21	6.42		M 6.46	6.37	4.52	M	M
4/ 1/86	5.61	5.16	6.40		M 6.42	6.23	4.38	M	M
4/ 2/86	5.48	5.15	6.37		M 6.39	6.11	4.28	M	M
4/ 3/86	5.39	4.93	6.33		M 6.33	5.95	4.25	M	M
4/ 4/86	5.22	5.12	6.29		M 6.28	5.80	4.22	M	M
4/ 5/86	5.12	5.25	6.24		M 6.23	5.64	4.14	M	M
4/ 6/86	5.20	5.28	6.18		M 6.15	5.55	4.15	M	M
4/ 7/86	5.22	5.34	6.12		M 6.08	5.46	4.14	M	M
4/ 8/86	5.25	5.35	6.06		M 6.02	5.40	4.10	M	M
4/ 9/86	5.25	5.36	6.00		M 5.96	5.35	4.06	M	M
4/10/86	5.25	5.36	5.92		M 5.90	5.27	4.00	M	M
4/11/86	5.23	5.35	5.84		M 5.81	5.18	3.96	M	M
4/12/86	5.20	5.34	5.75		M 5.73	5.12	3.93	M	M
4/13/86	5.26	5.46	5.96		M 5.95	5.41	4.24	M	M
4/14/86	5.33	5.47	5.94		M 5.92	5.42	4.19	M	M
4/15/86	5.33	5.47	5.87		M 5.85	5.32	4.14	M	M
4/16/86	5.32	5.47	5.80		M 5.78	5.24	4.09	M	M
4/17/86	5.29	5.46	5.71		M 5.71	5.16	4.05	M	M
4/18/86	5.24	5.43	5.63		M 5.65	5.09	3.95	M	M
4/19/86	5.20	5.39	5.54		M 5.57	5.03	3.90	M	M
4/20/86	5.17	5.36	5.47		M 5.52	4.98	3.85	M	M
4/21/86	5.12	5.33	5.40		M 5.45	4.96	3.81	M	M
4/22/86	5.08	5.30	5.34		M 5.39	4.91	3.73	M	M
4/23/86	5.05	5.24	5.26		M 5.30	4.85	3.66	M	M
4/24/86	5.00	5.20	5.18		M 5.25	4.79	3.62	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
4/25/86	4.95	5.16	5.11		M 5.19	4.75	3.61	M	M
4/26/86	4.90	5.15	5.05		M 5.08	4.72	3.71	M	M
4/27/86	4.89	5.15	4.99		M 5.02	4.69	3.72	M	M
4/28/86	4.88	5.15	4.93	5.10 P	4.97	4.67	3.67	M	M
4/29/86	4.85	5.06	4.88	5.10	4.94	4.64	3.59	M	M
4/30/86	4.81	5.05	4.83	5.10	4.90	4.59	3.60	M	M
5/ 1/86	4.77	5.01	4.77	5.10	4.85	4.55	3.58	M	M
5/ 2/86	4.73	4.97	4.72	5.10	4.81	4.52	3.57	M	M
5/ 3/86	4.69	4.93	4.67	5.10	4.73	4.47	3.55	M	M
5/ 4/86	4.70	5.01	4.85	5.09	4.96	4.55	3.63	M	M
5/ 5/86	4.79	5.03	4.87	5.09	4.97	4.69	3.70	M	M
5/ 6/86	4.79	5.02	4.86	5.09	4.96	4.67	3.75	M	M
5/ 7/86	4.77	4.99	4.86	5.09	4.96	4.63	3.76	M	M
5/ 8/86	4.73	5.11	5.04	5.27	4.98	4.87	3.96	M	M
5/ 9/86	4.80	5.11	5.07	5.22	5.00	5.00	4.14	M	M
5/10/86	4.83	5.09	5.08	5.17	5.00	4.89	4.05	M	M
5/11/86	4.83	5.08	5.06	5.14	5.00	4.82	3.98	M	M
5/12/86	4.82	5.01	5.00	5.11	4.97	4.75	3.90	M	M
5/13/86	4.77	4.96	4.92	5.11	4.93	4.68	3.84	M	M
5/14/86	4.72	4.92	4.85	5.11	4.88	4.62	3.77	M	M
5/15/86	4.67	4.88	4.86	5.10	4.88	4.57	3.71	M	M
5/16/86	4.64	4.86	4.85	5.11	4.88	4.55	3.72	M	M
5/17/86	4.68	4.83	4.79	5.11	4.85	4.51	3.68	M	M
5/18/86	4.77	4.81	4.72	5.10	4.77	4.46	3.61	M	M
5/19/86	4.54	4.77	4.64	5.11	4.68	4.41	3.56	M	M
5/20/86	4.51	4.75	4.58	5.10	4.64	4.37	3.82	M	M
5/21/86	4.68	4.82	4.53	5.10	4.61	4.35	3.95	M	M
5/22/86	4.81	5.24	4.84	5.12	4.93	4.61	4.12	M	M
5/23/86	5.13	5.25	5.19	5.31	5.16	5.10	4.35	M	M
5/24/86	5.21	5.22	5.20	5.51	5.22	5.22	4.35	M	M
5/25/86	5.21	5.10	5.19	5.31	5.22	5.14	4.20	M	M
5/26/86	5.13	5.00	5.13	5.14	5.18	5.00	4.05	M	M
5/27/86	5.01	4.93	5.02	5.11	5.07	4.88	3.91	M	M
5/28/86	4.89	4.89	4.90	5.12 P	4.96	4.76	3.84	M	M
5/29/86	4.82	4.87	4.78		M 4.86	4.65	3.76	M	M
5/30/86	4.73	4.80	4.67		M 4.73	4.54	3.73	M	M
5/31/86	4.66	4.80	4.57		M 4.65	4.45	3.70	M	M
6/ 1/86	4.61	4.78	4.49		M 4.59	4.40	3.67	M	M
6/ 2/86	4.57	4.85	4.70		M 5.13	4.39	3.65	M	M
6/ 3/86	4.67	4.86	4.73		M 5.16	4.56	3.71	M	M
6/ 4/86	4.61	4.84	4.73		M 5.16	4.60	3.70	M	M
6/ 5/86	4.61	4.75	4.67		M 5.10	4.57	3.66	M	M
6/ 6/86	4.57	4.68	4.57		M 5.00	4.51	3.61	M	M
6/ 7/86	4.51	4.61	4.61		M 5.04	4.44	3.88	M	M
6/ 8/86	4.67	5.11	5.72		M 6.14	4.81	4.64	M	M
6/ 9/86	4.84	5.26	5.71		M 6.13	5.28	4.56	M	M
6/10/86	4.98	5.28	5.62		M 6.00	5.25	4.24	M	M
6/11/86	4.98	5.07	5.84		M 6.11	5.17	4.17	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
6/12/86	4.96	4.93	6.02		M 6.36	5.18	4.11	M	M
6/13/86	4.89	4.92	6.01		M 6.35	5.27	4.50	M	M
6/14/86	4.88	4.92	5.95		M 6.28	5.25	4.59	M	M
6/15/86	4.91	5.12	5.96		M 6.29	5.24	4.44	M	M
6/16/86	5.00	5.10	6.20		M 6.40	5.41	4.72	M	M
6/17/86	5.04	5.05	6.17		M 6.40	5.60	4.66	M	M
6/18/86	5.05	5.03	6.15		M 6.36	5.49	4.43	M	M
6/19/86	5.07	5.44	6.40		M 6.64	5.54	4.55	M	M
6/20/86	5.55	5.88	6.43		M 6.73	6.12	4.79	M	M
6/21/86	5.74	5.88	6.40		M 6.72	6.29	4.53	M	M
6/22/86	5.72	5.17	6.36		M 6.65	6.18	4.90	M	M
6/23/86	5.66	5.63	6.32		M 6.61	6.20	5.21	M	M
6/24/86	5.63	5.77	6.66		M 6.57	6.27	5.13	M	M
6/25/86	5.70	5.30	6.65		M 6.54	6.16	5.02	M	M
6/26/86	5.48	4.89	6.59		M 6.52	6.06	5.17	M	M
6/27/86	5.26	4.91	6.57		M 6.49	6.02	5.25	M	M
6/28/86	5.18	4.89	6.54		M 6.47	6.03	5.07	M	M
6/29/86	5.24	4.90	6.54		M 6.51	6.24	5.01	M	M
6/30/86	5.31	4.90	6.54		M 6.50	6.34	4.90	M	M
7/ 1/86	5.30	4.89	6.54		M 6.50	6.20	4.89	M	M
7/ 2/86	5.23	4.89	6.74		M 6.65	6.23	4.87	M	M
7/ 3/86	5.22	5.02	6.63	6.40 P	6.64	6.29	4.77	M	M
7/ 4/86	5.24	5.48	6.59	6.40	6.59	6.17	4.78	M	M
7/ 5/86	5.30	5.36	6.60	6.40	6.55	6.10	4.75	M	M
7/ 6/86	5.31	5.24	6.60	6.40	6.54	6.08	4.74	M	M
7/ 7/86	5.30	5.20	6.57	6.40	6.54	6.01	4.67	M	M
7/ 8/86	5.26	5.21	6.54	6.40	6.53	5.95	4.63	M	M
7/ 9/86	5.63	5.77	6.58	6.41	6.58	5.97	5.05	M	M
7/10/86	5.71	5.65	6.61	6.44	6.66	6.08	5.15	M	M
7/11/86	5.68	5.48	6.60	6.45	6.63	6.03	4.90	M	M
7/12/86	5.56	5.38	6.57	6.45	6.58	5.95	4.74	M	M
7/13/86	5.43	5.28	6.55	6.43	6.55	5.91	4.62	M	M
7/14/86	5.33	5.22	6.52	6.40	6.53	5.86	4.59	M	M
7/15/86	5.25	5.17	6.49	6.39	6.50	5.81	4.53	M	M
7/16/86	5.18	5.11	6.45	6.38	6.46	5.75	4.45	M	M
7/17/86	5.16	5.57	6.41	6.37	6.43	5.68	4.38	M	M
7/18/86	5.21	5.35	6.46	6.36	6.49	5.65	4.40	M	M
7/19/86	5.29	5.42	6.44	6.37	6.47	5.67	4.44	M	M
7/20/86	5.34	5.46	6.40	6.37	6.44	5.67	4.38	M	M
7/21/86	5.35	5.48	6.36	6.37	6.38	5.64	4.42	M	M
7/22/86	5.34	5.44	6.31	6.37	6.33	5.59	4.40	M	M
7/23/86	5.35	5.57	6.31	6.36	6.29	5.68	4.75	M	M
7/24/86	5.47	5.64	6.32	6.36	6.29	5.82	4.93	M	M
7/25/86	5.46	5.56	6.34	6.36	6.31	5.80	5.10	M	M
7/26/86	5.44	6.02	6.60	6.36	6.49	5.87	5.34	M	M
7/27/86	5.61	6.34	6.72	6.44	6.62	6.13	5.05	M	M
7/28/86	5.69	6.03	6.65	6.54	6.62	6.13	4.80	M	M
7/29/86	5.70	5.35	6.62	6.55	6.62	6.07	4.66	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
7/30/86	5.53	5.30	6.60	6.54	6.62	5.99	4.48	M	M
7/31/86	5.35	5.13	6.57	6.54	6.61	5.91	4.34	M	M
8/ 1/86	5.25	5.02	6.65	6.54	6.65	5.85	4.27	M	M
8/ 2/86	5.17	5.00	6.62	6.52	6.65	5.84	4.20	M	M
8/ 3/86	5.14	4.97	6.58	6.51	6.62	5.79	4.10	M	M
8/ 4/86	5.15	5.03	6.54	6.45	6.57	5.89	4.52	M	M
8/ 5/86	5.27	5.03	6.54	6.45	6.56	6.05	4.72	M	M
8/ 6/86	5.27	4.98	6.52	6.42	6.55	5.92	4.41	M	M
8/ 7/86	5.22	4.92	6.49	6.40	6.51	5.81	4.24	M	M
8/ 8/86	5.14	5.13	6.47	6.35	6.50	5.72	4.13	M	M
8/ 9/86	5.13	5.36	6.43	6.31	6.46	5.65	4.18	M	M
8/10/86	5.25	5.52	6.48	6.32	6.49	5.64	4.20	M	M
8/11/86	5.45	5.98	6.56	6.31	6.53	5.98	4.25	M	M
8/12/86	5.45	5.12	6.56	6.37	6.53	6.02	4.20	M	M
8/13/86	5.42	5.08	6.54	6.38	6.53	5.94	4.11	M	M
8/14/86	5.29	5.00	6.52	6.38	6.53	5.85	4.04	M	M
8/15/86	5.21	4.94	6.54	6.39	6.59	5.75	3.98	M	M
8/16/86	5.11	5.40	6.58	6.45	6.59	5.81	4.16	M	M
8/17/86	5.38	5.50	6.77	6.51 E	6.77	6.24	4.66	M	M
8/18/86	5.56	5.63	6.81	6.40 E	6.82	6.64	4.79	M	M
8/19/86	5.56	5.64	6.80	6.37 E	6.82	6.65	4.73	M	M
8/20/86	5.56	5.63	6.77	6.34 E	6.80	6.61	4.64	M	M
8/21/86	5.56	5.58	6.75	6.38 E	6.78	6.51	4.53	M	M
8/22/86	5.61	5.50	6.74	6.38 E	6.76	6.41	4.48	M	M
8/23/86	5.70	5.43	6.72	6.38 E	6.74	6.31	4.39	M	M
8/24/86	5.70	5.41	6.74	6.36 E	6.73	6.40	4.32	M	M
8/25/86	5.56	5.41	6.74	6.36 E	6.76	6.64	4.31	M	M
8/26/86	5.70	5.22	6.73	6.35 E	6.76	6.53	4.30	M	M
8/27/86	5.54	5.22	6.71	6.35 E	6.74	6.38	4.23	M	M
8/28/86	5.48	5.32	6.67	6.35 E	6.70	6.25	4.17	M	M
8/29/86	5.69	5.32	6.66	6.35 E	6.68	6.15	4.11	M	M
8/30/86	5.47	5.19	6.63	6.34 E	6.66	6.04	4.06	M	M
8/31/86	5.37	5.11	6.61	6.34 E	6.66	6.08	4.11	M	M
9/ 1/86	5.32	5.03	6.60	6.34 E	6.65	5.98	4.07	M	M
9/ 2/86	5.24	4.96	6.58	6.34 E	6.61	5.87	4.10	M	M
9/ 3/86	5.16	4.91	6.55	6.34 E	6.58	5.79	4.35	M	M
9/ 4/86	5.09	4.89	6.54	6.34 E	6.56	5.75	4.64	M	M
9/ 5/86	5.05	4.91	6.53	6.40 E	6.56	5.75	4.87	M	M
9/ 6/86	5.04	4.95	6.52	6.42	6.55	5.76	4.70	M	M
9/ 7/86	5.09	5.13	6.55	6.42	6.68	5.84	4.87	M	M
9/ 8/86	5.30	5.22	6.62	6.61	6.69	6.25	5.16	M	M
9/ 9/86	5.45	5.28	6.70	6.74	6.70	6.26	5.03	M	M
9/10/86	5.46	5.28	6.67	6.75	6.70	6.23	4.72	M	M
9/11/86	5.44	5.21	6.64	6.71	6.70	6.14	4.52	M	M
9/12/86	5.37	5.14	6.61	6.69	6.66	6.06	4.39	M	M
9/13/86	5.31	5.09	6.61	6.67	6.65	6.02	4.31	M	M
9/14/86	5.24	5.00	6.58	6.65	6.64	5.94	4.25	M	M
9/15/86	5.18	4.93	6.56	6.60	6.61	5.87	4.18	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
9/16/86	5.14	4.89	6.53	6.57	6.58	5.81	4.13	M	M
9/17/86	5.12	4.87	6.50	6.53	6.55	5.76	4.18	M	M
9/18/86	5.10	4.87	6.47	6.49	6.53	5.71	4.19	M	M
9/19/86	5.06	5.28	6.44	6.42	6.49	5.66	4.17	M	M
9/20/86	5.16	5.41	6.40	6.36	6.45	5.62	4.25	M	M
9/21/86	5.27	5.54	6.40	6.33	6.43	5.61	4.57	M	M
9/22/86	5.36	5.57	6.38	6.29	6.47	5.66	4.49	M	M
9/23/86	5.40	5.55	6.40	6.28	6.45	5.68	4.40	M	M
9/24/86	5.41	5.55	6.40	6.29	6.42	5.66	4.36	M	M
9/25/86	5.43	5.49	6.39	6.26	6.38	5.61	4.28	M	M
9/26/86	5.50	5.48	6.34	6.24	6.37	5.56	4.31	M	M
9/27/86	5.40	5.43	6.30	6.21	6.33	5.52	4.27	M	M
9/28/86	5.38	5.44	6.26	6.18	6.30	5.49	4.27	M	M
9/29/86	5.38	5.57	6.23	6.17	6.27	5.46	4.23	M	M
9/30/86	5.43	5.65	6.29	6.21	6.29	5.58	4.19	M	M
10/ 1/86	6.29	5.66	6.29	6.23	6.29	5.65	4.18	M	M
10/ 2/86	6.29	5.56	6.27	6.23	6.29	5.62	4.18	M	M
10/ 3/86	6.27	5.52	6.23	6.21	6.27	5.55	4.19	M	M
10/ 4/86	6.25	5.41	6.18	6.18	6.25	5.48	4.19	M	M
10/ 5/86	6.21	5.40	6.15	6.16	6.21	5.44	4.20	M	M
10/ 6/86	6.18	5.49	6.12	6.12	6.18	5.42	4.18	M	M
10/ 7/86	6.15	5.52	6.08	6.09	6.15	5.39	4.10	M	M
10/ 8/86	6.12	5.53	6.05	6.06	6.12	5.34	4.03	M	M
10/ 9/86	6.07	5.51	6.01	6.01	6.07	5.30	3.98	M	M
10/10/86	6.04	5.53	5.97	5.98	6.04	5.34	3.99	M	M
10/11/86	6.04	5.55	5.98	5.98	6.04	5.40	3.99	M	M
10/12/86	6.04	5.56	5.95	5.97	6.04	5.33	3.99	M	M
10/13/86	6.01	5.56	5.92	5.95	6.01	5.29	3.95	M	M
10/14/86	5.98	5.54	5.88	5.93	5.98	5.25	3.90	M	M
10/15/86	5.95	5.58	6.04	5.98	5.95	5.28	4.00	M	M
10/16/86	6.18	5.61	6.05	6.08	6.18	5.38	4.25	M	M
10/17/86	6.12	5.61	6.04	6.06	6.12	5.37	4.15	M	M
10/18/86	6.10	5.59	6.00	6.04	6.10	5.34	4.04	M	M
10/19/86	6.03	5.59	5.96	6.03	6.03	5.30	4.01	M	M
10/20/86	6.00	5.58	5.92	5.99	6.00	5.26	4.00	M	M
10/21/86	5.97	5.55	5.88	5.96	5.97	5.24	3.94	M	M
10/22/86	5.94	5.52	5.87	5.94	5.94	5.20	3.90	M	M
10/23/86	5.90	5.48	5.82	5.91	5.90	5.17	3.88	M	M
10/24/86	5.87	5.47	5.78	5.87	5.87	5.16	3.86	M	M
10/25/86	5.84	5.44	5.74	5.85	5.84	5.14	3.83	M	M
10/26/86	5.82	5.42	5.71	5.82	5.82	5.12	3.80	M	M
10/27/86	5.76	5.40	5.67	5.78	5.76	5.10	3.76	M	M
10/28/86	6.10	5.43	6.04	5.80	6.10	5.25	3.82	M	M
10/29/86	6.28	5.50	6.18	5.95	6.28	5.74	4.19	M	M
10/30/86	6.27	5.35	6.18	5.98	6.27	5.71	4.18	M	M
10/31/86	6.22	5.24	6.16	5.97	6.22	5.65	4.14	M	M
11/ 1/86	6.20	5.20	6.14	5.97	6.20	5.58	4.12	M	M
11/ 2/86	6.18	5.20	6.11	5.96	6.18	5.48	4.14	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
11/ 3/86	6.14	5.27	6.08	5.93	6.14	5.43	4.13	M	M
11/ 4/86	6.12	5.30	6.06	5.91	6.12	5.40	4.09	M	M
11/ 5/86	6.10	5.31	6.04	5.90	6.10	5.38	4.06	M	M
11/ 6/86	6.07	5.31	6.01	5.87	6.07	5.36	4.02	M	M
11/ 7/86	6.05	5.30	5.99	5.84	6.05	5.32	3.97	M	M
11/ 8/86	6.01	5.29	5.95	5.81	6.01	5.28	3.91	M	M
11/ 9/86	5.99	5.29	5.92	5.79	5.99	5.25	3.92	M	M
11/10/86	5.96	5.29	5.90	5.77	5.96	5.22	3.89	M	M
11/11/86	5.93	5.27	5.87	5.74	5.93	5.19	3.88	M	M
11/12/86	5.90	5.26	5.86	5.76	5.90	5.18	3.86	M	M
11/13/86	5.89	5.20	5.86	5.74	5.89	5.17	3.85	M	M
11/14/86	5.87	5.31	6.00	5.77	5.87	5.25	3.88	M	M
11/15/86	6.12	5.41	6.01	5.92	6.12	5.48	3.97	M	M
11/16/86	6.09	5.40	6.00	5.92	6.09	5.43	4.02	M	M
11/17/86	6.05	5.39	5.96	5.88	6.05	5.37	4.03	M	M
11/18/86	6.01	5.40	5.94	5.85	6.01	5.34	4.01	M	M
11/19/86	6.00	5.40	5.91	5.82	6.00	5.31	3.98	M	M
11/20/86	5.95	5.40	5.87	5.79	5.95	5.27	3.96	M	M
11/21/86	5.16	5.38	5.86	5.75	5.90	5.25	3.89	M	M
11/22/86	5.62	5.76	5.86	5.84	5.87	5.50	3.90	M	M
11/23/86	5.62	5.67	5.86	5.98	5.89	5.65	3.81	M	M
11/24/86	5.48	5.60	5.86	5.94	5.89	5.50	3.77	M	M
11/25/86	5.37	5.55	5.86	5.89	5.88	5.41	3.90	M	M
11/26/86	5.32	5.53	5.86	5.83	5.85	5.34	3.86	M	M
11/27/86	5.27	5.48	5.71	5.78	5.81	5.28	3.89	M	M
11/28/86	5.27	5.47	5.76	5.75	5.80	5.28	3.92	M	M
11/29/86	5.53	5.55	5.99	5.87	6.02	5.72	4.46	M	M
11/30/86	5.33	5.19	5.99	5.87	6.01	5.64	4.21	M	M
12/ 1/86	5.32	5.25	6.05	5.84	6.09	5.58	4.07	M	M
12/ 2/86	5.27	5.27	6.07	5.85	6.08	5.57	4.12	M	M
12/ 3/86	5.25	5.39	6.07	5.83	6.07	5.49	4.09	M	M
12/ 4/86	5.28	5.43	6.03	5.79	6.07	5.44	4.11	M	M
12/ 5/86	5.30	5.45	5.98	5.76	5.97	5.40	4.12	M	M
12/ 6/86	5.47	5.47	5.94	5.75	5.94	5.41	4.13	M	M
12/ 7/86	5.45	5.49	5.91	5.76	5.91	5.47	4.10	M	M
12/ 8/86	5.36	5.49	5.88	5.74	5.88	5.41	4.06	M	M
12/ 9/86	5.28	5.43	5.86	5.71	5.84	5.34	4.03	M	M
12/10/86	5.26	5.42	5.86	5.68	5.80	5.30	4.00	M	M
12/11/86	5.28	5.48	5.86	5.65	5.75	5.27	3.96	M	M
12/12/86	5.28	5.48	5.86	5.64	5.72	5.24	3.93	M	M
12/13/86	5.22	5.44	5.86	5.61	5.69	5.20	3.89	M	M
12/14/86	5.18	5.40	5.86	5.58	5.66	5.15	3.86	M	M
12/15/86	5.14	5.39	5.86	5.55	5.62	5.13	3.85	M	M
12/16/86	5.13	5.36	5.86	5.52	5.59	5.11	3.86	M	M
12/17/86	5.11	5.32	5.86	5.50	5.59	5.08	3.85	M	M
12/18/86	5.09	5.31	5.86	5.47	5.50	5.05	3.84	M	M
12/19/86	5.07	5.31	5.86	5.44	5.44	5.02	3.82	M	M
12/20/86	5.05	5.30	5.86	5.41	5.41	4.99	3.79	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
12/21/86	5.02	5.28	5.86	5.39	5.38	4.97	3.77	M	M
12/22/86	5.00	5.24	5.86	5.37	5.34	4.95	3.75	M	M
12/23/86	4.97	5.20	5.86	5.35	5.31	4.93	3.76	M	M
12/24/86	5.17	5.34	5.86	5.50	5.60	5.09	4.10	M	M
12/25/86	5.17	5.26	5.86	5.56	5.58	5.20	4.18	M	M
12/26/86	5.12	5.37	5.86	5.53	5.59	5.18	4.03	M	M
12/27/86	5.34	5.61	5.86	5.61	5.87	5.25	3.70	M	M
12/28/86	5.48	5.61	5.87	5.76	5.87	5.50	3.93	M	M
12/29/86	5.45	5.61	5.87	5.76	5.87	5.44	3.89	M	M
12/30/86	5.38	5.58	5.86	5.72	5.78	5.36	3.87	M	M
12/31/86	5.78	5.91	6.04	5.75	6.05	5.41	3.92	M	M
1/ 1/87	6.68	5.93	6.14	6.05	6.10	6.24	4.82	M	M
1/ 2/87	5.84	5.58	6.14	6.07	6.10	6.07	4.40	M	M
1/ 3/87	5.34	4.87	6.12	6.01	6.10	5.85	4.35	M	M
1/ 4/87	5.05	4.78	6.14	5.95	6.10	5.76	4.45	M	M
1/ 5/87	5.03	4.75	6.14	5.91	6.10	5.76	4.48	M	M
1/ 6/87	4.92	4.64	6.12	5.82	6.10	5.60	4.28	M	M
1/ 7/87	4.85	4.84	6.10	5.74	6.02	5.48	4.19	M	M
1/ 8/87	4.94	4.93	6.10	5.66	5.97	5.38	4.18	M	M
1/ 9/87	4.95	4.96	6.09	5.60	5.93	5.32	4.18	M	M
1/10/87	4.96	4.99	6.05	5.55	5.88	5.25	4.15	M	M
1/11/87	4.95	4.99	6.01	5.50	5.82	5.21	4.09	M	M
1/12/87	4.93	4.99	5.95	5.43	5.75	5.14	4.05	M	M
1/13/87	4.89	4.97	5.90	5.39	5.69	5.09	4.02	M	M
1/14/87	4.86	4.95	5.86	5.35	5.69	5.04	3.97	M	M
1/15/87	4.83	4.94	5.86	5.26	5.69	5.00	3.95	M	M
1/16/87	4.79	4.89	5.86	5.21	5.69	4.96	3.94	M	M
1/17/87	4.77	4.89	5.86	5.18	5.49	4.93	3.94	M	M
1/18/87	4.76	4.89	5.86	5.16	5.43	4.91	3.94	M	M
1/19/87	4.75	4.89	5.86	5.12	5.38	4.88	3.93	M	M
1/20/87	4.73	4.88	5.86	5.09	5.34	4.86	3.88	M	M
1/21/87	4.73	4.89	5.86	5.06	5.28	4.84	3.84	M	M
1/22/87	4.73	4.90	5.86	5.05	5.25	4.83	3.85	M	M
1/23/87	4.75	4.96	5.86	5.02	5.22	4.80	3.87	M	M
1/24/87	4.78	4.99	5.86	4.99	5.18	4.78	3.83	M	M
1/25/87	4.84	5.05	5.86	5.01	5.16	4.77	3.89	M	M
1/26/87	4.86	5.06	5.86	5.02	5.16	4.78	3.89	M	M
1/27/87	4.82	5.03	5.86	4.99	5.10	4.77	3.88	M	M
1/28/87	4.78	4.99	5.86	4.97	5.09	4.74	3.83	M	M
1/29/87	4.77	4.97	5.86	4.95	5.09	4.72	3.82	M	M
1/30/87	4.76	4.97	5.01	4.93	5.00	4.71	3.82	M	M
1/31/87	4.77	4.97	5.00	4.92	4.97	4.70	3.82	M	M
2/ 1/87	4.75	4.96	4.97	4.89	4.94	4.68	3.81	M	M
2/ 2/87	4.74	4.95	4.94	4.87	4.91	4.66	3.80	M	M
2/ 3/87	4.73	4.94	4.91	4.86	4.88	4.64	3.78	M	M
2/ 4/87	4.67	4.86	4.88	4.86	4.87	4.62	3.73	M	M
2/ 5/87	4.70	4.92	4.99	4.96	5.12	4.67	3.69	M	M
2/ 6/87	4.71	4.90	4.99	5.09	5.11	4.78	3.63	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
2/ 7/87	4.78	4.95	5.17	5.22	5.24	4.82	3.64	M	M
2/ 8/87	4.79	4.93	5.18	5.23	5.22	4.85	3.62	M	M
2/ 9/87	4.74	4.88	5.13	5.09	5.15	4.76	3.58	M	M
2/10/87	4.70	4.91	5.02	4.99	5.03	4.69	3.61	M	M
2/11/87	4.71	4.92	4.94	4.95	4.94	4.66	3.64	M	M
2/12/87	4.69	4.91	4.89	4.92	4.90	4.62	3.65	M	M
2/13/87	4.66	4.90	4.86	4.89	4.85	4.60	3.63	M	M
2/14/87	4.64	4.88	4.83	4.87	4.82	4.58	3.61	M	M
2/15/87	4.65	4.90	4.82	4.86	4.78	4.57	3.60	M	M
2/16/87	4.67	4.92	4.81	4.87	4.78	4.56	3.61	M	M
2/17/87	4.67	4.92	4.81	4.87	4.78	4.56	3.59	M	M
2/18/87	4.64	4.90	4.81	4.85	4.75	4.56	3.60	M	M
2/19/87	4.63	4.89	4.80	4.84	4.72	4.55	3.62	M	M
2/20/87	4.70	4.87	4.69	4.81	4.69	4.53	3.62	M	M
2/21/87	4.59	4.86	4.66	4.78	4.68	4.51	3.61	M	M
2/22/87	4.79	4.86	4.64	4.77	4.65	4.48	3.57	M	M
2/23/87	4.58	4.86	4.58	4.75	4.63	4.46	3.55	M	M
2/24/87	4.54	4.83	4.57	4.72	4.60	4.43	3.52	M	M
2/25/87	4.59	4.87	4.55	4.73	4.63	4.42	3.53	M	M
2/26/87	4.62	4.88	4.55	4.75	4.63	4.44	3.55	M	M
2/27/87	4.61	4.88	4.55	4.73	4.61	4.44	3.54	M	M
2/28/87	4.58	4.87	4.53	4.71	4.61	4.41	3.53	M	M
3/ 1/87	4.56	4.86	4.50	4.68	4.52	4.38	3.51	M	M
3/ 2/87	4.85	5.12	4.99	4.86	5.07	4.50	3.69	M	M
3/ 3/87	4.91	5.12	5.03	5.14	5.08	4.83	3.96	M	M
3/ 4/87	4.92	5.12	5.03	5.10	5.07	4.84	3.97	M	M
3/ 5/87	4.91	5.13	5.01	5.04	5.00	4.82	3.93	M	M
3/ 6/87	4.86	5.13	5.39	5.00	5.47	4.80	3.83	M	M
3/ 7/87	5.87	5.77	6.30	5.81	6.21	5.96	4.75	M	M
3/ 8/87	5.55	5.12	6.30	5.93	6.13	5.99	4.53	M	M
3/ 9/87	5.18	4.92	6.30	5.82	6.11	5.77	4.26	M	M
3/10/87	5.05	5.11	6.30	5.70	6.11	5.58	4.09	M	M
3/11/87	5.11	5.17	6.30	5.62	5.94	5.44	4.12	M	M
3/12/87	5.11	5.19	6.30	5.56	5.88	5.35	4.12	M	M
3/13/87	5.11	5.21	6.30	5.51	5.88	5.27	4.07	M	M
3/14/87	5.05	5.11	6.30	5.46	5.88	5.21	4.07	M	M
3/15/87	4.96	5.06	6.30	5.40	5.66	5.13	4.03	M	M
3/16/87	4.91	5.03	6.30	5.33	5.61	5.06	3.93	M	M
3/17/87	4.85	4.99	6.30	5.27	5.53	5.00	3.90	M	M
3/18/87	4.80	4.96	6.30	5.22	5.47	4.94	3.84	M	M
3/19/87	4.75	4.88	6.30	5.18	5.47	4.89	3.83	M	M
3/20/87	4.68	4.85	6.30	5.12	5.32	4.84	3.77	M	M
3/21/87	4.64	4.82	6.30	5.07	5.25	4.79	3.80	M	M
3/22/87	4.70	4.82	6.30	5.02	5.19	4.72	3.77	M	M
3/23/87	4.71	4.88	6.30	5.14	5.32	4.82	4.06	M	M
3/24/87	5.09	5.14	5.80	5.31	5.77	5.10	4.21	M	M
3/25/87	5.12	5.17	5.81	5.52	5.77	5.37	4.13	M	M
3/26/87	5.11	5.24	5.78	5.48	5.72	5.26	3.93	M	M

Table D.8 Average Daily Water Levels (ft. MGD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
3/27/87	5.08	5.25	5.70	5.44	5.66	5.17	3.85	M	M
3/28/87	5.05	5.25	5.62	5.39	5.58	5.09	3.78	M	M
3/29/87	5.03	5.25	5.56	5.37	5.50	5.02	3.73	M	M
3/30/87	5.00	5.23	5.51	5.32	5.44	4.96	3.66	M	M
3/31/87	5.28	5.45	5.67	5.51	5.69	5.26	3.76	M	M
4/ 1/87	5.22	5.34	5.67	5.56	5.71	5.24	3.84	M	M
4/ 2/87	5.11	5.27	5.63	5.50	5.66	5.14	3.83	M	M
4/ 3/87	5.03	5.21	5.58	5.43	5.62	5.06	3.80	M	M
4/ 4/87	4.98	5.17	5.50	5.37	5.55	4.99	3.74	M	M
4/ 5/87	4.92	5.12	5.42	5.31	5.45	4.93	3.68	M	M
4/ 6/87	4.86	5.10	5.34	5.27	5.37	4.86	3.62	M	M
4/ 7/87	4.79	5.07	5.27	5.23	5.31	4.83	3.65	M	M
4/ 8/87	4.77	5.05	5.23	5.19	5.28	4.80	3.69	M	M
4/ 9/87	4.77	5.04	5.20	5.16	5.24	4.77	3.65	M	M
4/10/87	4.75	5.03	5.13	5.12	5.18	4.71	3.61	M	M
4/11/87	4.73	5.01	5.06	5.08	5.08	4.66	3.56	M	M
4/12/87	4.71	4.99	5.00	5.05	5.04	4.62	3.52	M	M
4/13/87	4.70	5.00	4.95	5.02	5.00	4.61	3.51	M	M
4/14/87	4.68	4.99	4.90	4.99	4.95	4.58	3.51	M	M
4/15/87	4.69	5.01	4.84	4.98	4.91	4.56	3.54	M	M
4/16/87	4.68	5.03	4.81	4.93	4.89	4.55	3.54	M	M
4/17/87	4.67	5.00	4.77	4.90	4.84	4.54	3.55	M	M
4/18/87	4.67	5.02	4.73	4.88	4.81	4.52	3.54	M	M
4/19/87	4.66	5.02	4.67	4.85	4.75	4.49	3.52	M	M
4/20/87	4.65	5.00	4.63	4.83	4.70	4.47	3.50	M	M
4/21/87	4.64	5.01	4.58	4.81	4.66	4.45	3.49	M	M
4/22/87	4.63	4.99	4.54	4.79	4.64	4.43	3.49	M	M
4/23/87	4.70	4.98	4.51	4.78	4.60	4.42	3.48	M	M
4/24/87	4.59	4.97	4.47	4.77	4.56	4.39	3.46	M	M
4/25/87	4.56	4.95	4.44	4.75	4.52	4.36	3.43	M	M
4/26/87	4.54	4.93	4.40	4.75	4.47	4.34	3.40	M	M
4/27/87	4.54	4.97	4.35	4.75	4.43	4.32	3.38	M	M
4/28/87	4.57	5.01	4.34	4.72	4.39	4.31	3.37	M	M
4/29/87	4.58	5.00	4.32	4.71	4.36	4.29	3.33	M	M
4/30/87	4.57	5.00	4.25	4.69	4.32	4.27	3.37	M	M
5/ 1/87	4.46	4.81	4.23	4.65	4.28	4.27	3.57	M	M
5/ 2/87	4.38	4.70	4.21	4.58	4.26	4.29	3.66	M	M
5/ 3/87	4.33	4.64	4.20	4.52	4.24	4.29	3.72	M	M
5/ 4/87	4.29	4.60	4.17	4.48	4.23	4.28	3.73	M	M
5/ 5/87	4.26	4.55	4.15	4.44	4.21	4.26	3.77	M	M
5/ 6/87	4.32	4.69	4.14	4.41	4.20	4.24	3.70	M	M
5/ 7/87	4.31	4.57	4.73	4.84	4.89	4.38	3.77	M	M
5/ 8/87	4.63	4.66	4.74	5.05	5.04	4.85	3.86	M	M
5/ 9/87	4.69	4.63	4.74	5.07	5.68	5.08	3.75	M	M
5/10/87	4.73	4.76	4.74	5.30	5.68	5.14	4.22	M	M
5/11/87	5.52	5.03	4.74	5.59	5.59	5.35	4.34	M	M
5/12/87	5.16	5.09	4.74	5.53	5.50	5.21	4.16	M	M
5/13/87	5.04	5.08	4.74	5.42	5.43	5.10	4.18	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
5/14/87	4.95	5.05	4.74	5.31	5.44	5.02	4.23	M	M
5/15/87	4.90	5.02	4.74	5.22	5.37	4.97	4.12	M	M
5/16/87	4.84	4.99	4.74	5.16	5.31	4.91	4.34	M	M
5/17/87	4.80	4.98	4.74	5.08	5.24	4.87	4.30	M	M
5/18/87	4.76	4.94	4.74	5.01	5.15	4.80	4.23	M	M
5/19/87	4.72	4.92	5.08	4.97	5.06	4.76	4.22	M	M
5/20/87	4.66	4.88	5.08	4.92	5.02	4.71	4.19	M	M
5/21/87	4.70	4.84	4.99	4.86	4.94	4.65	4.11	M	M
5/22/87	4.55	4.79	4.91	4.81	4.87	4.58	4.03	M	M
5/23/87	4.51	4.73	4.80	4.80	4.81	4.53	3.95	M	M
5/24/87	4.46	4.70	4.76	4.72	4.77	4.49	3.86	M	M
5/25/87	4.42	4.64	4.68	4.65	4.68	4.44	3.77	M	M
5/26/87	4.37	4.61	4.61	4.61	4.63	4.38	3.69	M	M
5/27/87	4.32	4.56	4.56	4.55	4.55	4.31	3.60	M	M
5/28/87	4.27	4.52	4.48	4.49	4.48	4.24	3.53	M	M
5/29/87	M	4.50	4.42	4.46	4.41	4.21	3.56	M	M
5/30/87	M	4.48	4.39	4.43	4.38	4.17	3.51	M	M
5/31/87	M	4.44	4.36	4.41	4.36	4.15	3.44	M	M
6/ 1/87	M	4.40	4.33	4.38	4.31	4.10	3.41	M	M
6/ 2/87	M	4.48	4.28	4.35	4.26	4.08	3.41	M	M
6/ 3/87	M	4.51	4.27	4.33	4.24	4.07	3.49	M	M
6/ 4/87	M	4.51	4.23	4.32	4.20	4.06	3.50	M	M
6/ 5/87	M	4.50	4.17	4.30	4.16	4.06	3.49	M	M
6/ 6/87	M	4.49	4.13	4.27	4.12	4.03	3.45	M	M
6/ 7/87	M	4.60	4.14	4.33	4.17	4.05	3.45	M	M
6/ 8/87	M	4.61	4.16	4.40	4.20	4.10	3.45	M	M
6/ 9/87	M	4.74	4.27	4.54	4.22	4.11	3.51	M	M
6/10/87	M	4.75	4.36	4.65	4.30	4.19	3.54	M	M
6/11/87	M	4.70	4.36	4.58	4.35	4.30	3.49	M	M
6/12/87	M	4.70	4.36	4.53	4.34	4.30	3.43	M	M
6/13/87	M	4.67	4.30	4.46	4.26	4.25	3.38	M	M
6/14/87	M	4.67	4.22	4.41	4.19	4.18	3.35	M	M
6/15/87	M	4.75	4.14	4.39	4.14	4.15	3.33	M	M
6/16/87	M	4.80	4.15	4.37	4.16	4.12	3.33	M	M
6/17/87	M	4.77	4.15	4.37	4.15	4.10	3.36	M	M
6/18/87	M	4.77	4.14	4.34	4.12	4.08	3.35	M	M
6/19/87	M	4.75	4.13	4.31	4.11	4.08	3.32	M	M
6/20/87	M	4.72	4.13	4.31	4.11	4.07	3.31	M	M
6/21/87	M	4.69	4.04	4.29	4.08	4.05	3.29	M	M
6/22/87	M	4.65	4.03	4.28	4.04	4.03	3.26	M	M
6/23/87	M	4.64	4.53	4.30	4.37	4.05	3.34	M	M
6/24/87	4.18	4.39	4.65	4.28	4.52	4.27	3.77	M	M
6/25/87	4.27	4.47	4.67	4.27	4.60	4.33	3.79	M	M
6/26/87	4.40	4.56	4.75	4.61	4.96	4.41	3.78	M	M
6/27/87	6.14	5.89	4.75	5.26	5.95	5.08	4.16	M	M
6/28/87	7.13	5.73	4.75	6.04	6.16	6.35	5.03	M	M
6/29/87	6.38	5.35	4.75	6.27	6.38	6.65	5.47	M	M
6/30/87	5.94	5.20	4.75	6.31	6.37	6.60	5.29	M	M

Table D.8 Average Daily Water Levels (ft. NGVD), West of L-31N,
from July 11, 1985 through July 11, 1987.

Date	G-596 USGS	G-1487 USGS	G-1502 USGS	G-3272 USGS	G-3273 USGS	Angel WMD	Rutzke WMD	Mitchell WMD	200th St WMD
7/ 1/87	5.51	4.99	4.75	6.24	6.41	6.40	4.91	M	M
7/ 2/87	5.22	4.74	4.75	6.12	6.32	6.18	4.74	M	M
7/ 3/87	5.03	4.66	4.75	6.02	6.25	5.93	4.56	M	M
7/ 4/87	4.89	4.56	4.76	5.85	6.19	5.84	4.54	M	M
7/ 5/87	4.78	4.55	4.76	5.70	6.13	5.64	4.47	M	M
7/ 6/87	4.75	4.64	4.76	5.55	6.10	5.46	4.37	M	M
7/ 7/87	4.75	4.63	4.76	5.42	6.10	5.32	4.32	M	M
7/ 8/87	4.70	4.62	4.76	5.32	5.87	5.21	4.27	M	M
7/ 9/87	4.63	4.57	4.76	5.17	5.77	5.08	4.17	M	M
7/10/87	4.54	4.54	4.76	5.04	5.72	4.95	4.08	M	M
7/11/87	4.45	4.46	4.76	4.97 E	5.72	4.84	4.00	M	M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
7/11/85	8.01	7.96	7.99	8.00	8.31	8.00	6.32	5.97	7.82	M
7/12/85	8.03	7.98	8.01	8.03	8.34	8.02	6.33	5.97	7.83	M
7/13/85	8.04	8.00	8.03	8.05	8.38	8.05	6.36	6.01	7.85	M
7/14/85	8.06	8.02	8.04	8.07	8.41	8.07	6.35	6.03	7.85	M
7/15/85	8.07	8.03	8.06	8.08	8.39	8.08	6.36	6.11	7.85	M
7/16/85	8.10	8.06	8.09	8.12	8.46	8.13	6.44	6.23	7.85	M
7/17/85	8.13	8.09	8.12	8.15	8.56	8.15	6.60	6.26	7.92	M
7/18/85	8.19	8.14	8.16	8.22	8.60	8.22	6.63	6.28	7.95	M
7/19/85	8.21	8.18	8.22	8.26	8.73	8.26	6.66	6.29	7.98	M
7/20/85	8.29	8.26	8.31	8.35	8.85	8.36	6.70	6.33	8.09	M
7/21/85	8.34	8.31	8.36	8.40	8.91	8.41	6.70	6.34	8.18	M
7/22/85	8.35	8.32	8.36	8.40	8.97	8.42	6.71	6.34	8.24	M
7/23/85	8.45	8.40	8.44	8.47	9.17	8.48	6.81	6.45	8.29	M
7/24/85	8.64	8.61	8.65	8.71	9.48	8.73	6.87	6.66	8.55	M
7/25/85	8.71	8.68	8.72	8.78	9.56	8.80	6.84	6.63	8.66	M
7/26/85	8.76	8.73	8.76	8.82	9.61	8.83	6.83	6.61	8.71	M
7/27/85	8.83	8.79	8.82	8.87	9.67	8.88	6.84	6.60	8.77	M
7/28/85	8.87	8.84	8.87	8.93	9.72	8.93	6.83	6.57	8.82	M
7/29/85	8.92	8.89	8.92	8.97	9.76	8.98	6.83	6.55	8.88	M
7/30/85	8.98	8.94	8.97	9.01	9.79	9.01	6.91	6.53	8.94	M
7/31/85	9.04	9.00	9.03	9.06	9.82	9.06	7.01	6.53	9.00	M
8/ 1/85	9.07	9.03	9.06	9.10	9.87	9.10	7.01	6.52	9.05	M
8/ 2/85	9.09	9.06	9.10	9.14	9.90	9.14	7.02	6.51	9.08	M
8/ 3/85	9.15	9.12	9.15	9.19	9.96	9.19	7.03	6.53	9.11	M
8/ 4/85	9.24	9.21	9.24	9.27	10.00	9.27	7.02	6.51	9.17	M
8/ 5/85	9.35	9.32	9.35	9.37	10.06	9.37	7.03	6.49	9.27	M
8/ 6/85	9.41	9.37	9.39	9.41	10.09	9.41	7.21	6.48	9.36	M
8/ 7/85	9.42	9.38	9.39	9.41	10.14	9.41	7.25	6.48	9.41	M
8/ 8/85	9.45	9.41	9.44	9.46	10.18	9.46	7.30	6.50	9.46	M
8/ 9/85	9.49	9.45	9.47	9.50	10.18	9.50	7.36	6.51	9.52	M
8/10/85	9.49	9.47	9.49	9.53	10.15	9.53	7.37	6.52	9.54	M
8/11/85	9.50	9.48	9.51	9.54	10.15	9.54	7.38	6.56	9.56	M
8/12/85	9.52	9.49	9.51	9.54	10.12	9.54	7.39	6.57	9.57	M
8/13/85	9.52	9.49	9.52	9.54	10.11	9.54	7.41	6.57	9.57	M
8/14/85	9.52	9.49	9.51	9.54	10.08	9.53	7.44	6.57	9.57	M
8/15/85	9.52	9.49	9.51	9.54	10.06	9.53	7.44	6.57	9.57	M
8/16/85	9.51	9.49	9.51	9.53	10.04	9.53	7.44	6.57	9.57	M
8/17/85	9.52	9.49	9.51	9.54	10.01	9.53	7.45	6.58	9.57	M
8/18/85	9.52	9.49	9.52	9.54	10.00	9.54	7.46	6.60	9.57	M
8/19/85	9.52	9.49	9.52	9.54	10.00	9.54	7.46	6.60	9.57	M
8/20/85	9.56	9.53	9.55	9.57	10.00	9.56	7.49	6.60	9.60	M
8/21/85	9.65	9.62	9.65	9.66	10.02	9.66	7.52	6.60	9.70	M
8/22/85	9.71	9.69	9.71	9.73	10.13	9.73	7.53	6.62	9.76	M
8/23/85	9.73	9.70	9.71	9.73	10.13	9.73	7.53	6.63	9.76	M
8/24/85	9.74	9.69	9.71	9.72	10.09	9.72	7.53	6.63	9.75	M
8/25/85	9.73	9.68	9.69	9.71	10.08	9.71	7.52	6.62	9.75	M
8/26/85	9.72	9.67	9.68	9.69	10.06	9.69	7.51	6.63	9.73	M
8/27/85	9.75	9.70	9.72	9.73	10.07	9.72	7.54	6.66	9.76	M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
8/28/85	9.78	9.73	9.73	9.74	10.07	9.74	7.53	6.67	9.78	M
8/29/85	9.80	9.75	9.76	9.77	10.15	9.78	7.59	6.77	9.81	M
8/30/85	9.80	9.76	9.78	9.79	10.16	9.80	7.59	6.78	9.83	M
8/31/85	9.76	9.72	9.74	9.77	10.15	9.76	7.59	6.75	9.82	M
9/ 1/85	9.73	9.69	9.71	9.72	10.12	9.72	7.57	6.73	9.78	M
9/ 2/85	9.76	9.71	9.73	9.74	10.10	9.75	7.56	6.75	9.78	M
9/ 3/85	9.79	9.74	9.76	9.76	10.08	9.77	7.56	6.77	9.80	M
9/ 4/85	9.80	9.75	9.77	9.77	10.09	9.78	7.57	6.77	9.81	M
9/ 5/85	9.81	9.76	9.78	9.79	10.16	9.80	7.59	6.81	9.82	M
9/ 6/85	9.82	9.78	9.80	9.81	10.18	9.82	7.59	6.84	9.84	M
9/ 7/85	9.82	9.78	9.79	9.81	10.15	9.82	7.57	6.83	9.84	M
9/ 8/85	9.84	9.79	9.80	9.81	10.13	9.82	7.59	6.83	9.83	M
9/ 9/85	9.85	9.80	9.81	9.82	10.13	9.83	7.59	6.86	9.84	M
9/10/85	9.83	9.78	9.80	9.81	10.12	9.82	7.58	6.84	9.84	M
9/11/85	9.83	9.78	9.80	9.81	10.10	9.82	7.58	6.83	9.85	M
9/12/85	9.84	9.79	9.81	9.82	10.10	9.83	7.59	6.83	9.85	M
9/13/85	9.83	9.78	9.81	9.83	10.09	9.83	7.60	6.85	9.84	M
9/14/85	9.85	9.81	9.83	9.85	10.10	9.86	7.60	6.88	9.85	M
9/15/85	9.87	9.83	9.85	8.86	10.10	9.87	7.57	6.88	9.86	M
9/16/85	9.87	9.82	9.83	9.85	10.12	9.86	7.59	6.87	9.85	M
9/17/85	9.88	9.83	9.85	9.88	10.17	9.88	7.61	6.89	9.87	M
9/18/85	9.94	9.90	9.94	9.99	10.20	10.00	7.45	7.06	9.93	M
9/19/85	9.97	9.94	9.98	10.04	10.20	10.05	7.30	7.10	9.98	M
9/20/85	9.95	9.93	9.99	10.06	10.19	10.07	7.28	7.12	10.01	M
9/21/85	9.92	9.92	9.98	10.06	10.19	10.08	7.25	7.10	10.01	M
9/22/85	9.90	9.90	9.98	10.03	10.19	10.06	7.21	7.09	10.00	M
9/23/85	9.90	9.89	9.95	10.03	10.19	10.05	7.16	7.09	9.99	M
9/24/85	9.88	9.88	9.94	10.02	10.19	10.04	7.11	7.08	9.98	M
9/25/85	9.85	9.86	9.93	10.00	10.18	10.03	7.08	7.08	9.97	M
9/26/85	9.82	9.83	9.91	9.99	10.18	10.01	7.06	7.06	9.96	M
9/27/85	9.80	9.81	9.89	9.98	10.18	9.99	7.03	7.06	9.94	M
9/28/85	9.79	9.81	9.87	9.97	10.19	9.99	6.98	7.06	9.93	M
9/29/85	9.79	9.79	9.86	9.95	10.19	9.97	6.96	7.06	9.92	M
9/30/85	9.78	9.79	9.86	9.95	10.18	9.97	6.95	7.07	9.91	M
10/ 1/85	9.78	9.79	9.84	9.91	10.26	9.94	7.18	7.07	9.91	M
10/ 2/85	9.78	9.78	9.83	9.86	10.35	9.89	7.46	7.08	9.89	M
10/ 3/85	9.79	9.78	9.83	9.83	10.39	9.88	7.52	7.13	9.88	M
10/ 4/85	9.83	9.81	9.83	9.83	10.43	9.89	7.58	7.14	9.88	M
10/ 5/85	9.86	9.83	9.87	9.87	10.50	9.93	7.60	7.19	9.91	M
10/ 6/85	9.88	9.86	9.90	9.90	10.51	9.97	7.53	7.21	9.94	M
10/ 7/85	9.92	9.90	9.94	9.97	10.49	10.03	7.35	7.21	9.96	M
10/ 8/85	9.95	9.93	9.97	9.99	10.48	10.05	7.27	7.21	10.00	M
10/ 9/85	9.94	9.93	9.97	9.97	10.46	10.03	7.49	7.21	10.00	M
10/10/85	9.89	9.89	9.94	9.95	10.43	10.01	7.51	7.20	10.00	M
10/11/85	9.86	9.87	9.91	9.92	10.41	9.99	7.52	7.20	9.98	M
10/12/85	9.85	9.86	9.91	9.92	10.40	9.98	7.51	7.21	9.96	M
10/13/85	9.84	9.85	9.90	9.91	10.39	9.97	7.51	7.22	9.96	M
10/14/85	9.83	9.84	9.89	9.90	10.37	9.96	7.52	7.22	9.95	M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity, from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
10/15/85	9.81	9.82	9.87	9.87	10.35	9.93	7.52	7.22	9.93	M
10/16/85	9.79	9.80	9.85	9.86	10.33	9.92	7.52	7.22	9.93	M
10/17/85	9.78	9.79	9.84	9.84	10.36	9.91	7.51	7.22	9.91	M
10/18/85	9.83	9.81	9.85	9.84	10.42	9.91	7.51	7.21	9.90	M
10/19/85	9.85	9.83	9.86	9.86	10.47	9.93	7.53	7.25	9.90	M
10/20/85	9.88	9.86	9.89	9.89	10.52	9.95	7.53	7.26	9.92	M
10/21/85	9.89	9.87	9.90	9.90	10.50	9.97	7.54	7.25	9.93	M
10/22/85	9.90	9.88	9.90	9.90	10.47	9.97	7.54	7.24	9.94	M
10/23/85	9.92	9.89	9.91	9.91	10.45	9.97	7.54	7.22	9.95	M
10/24/85	9.93	9.90	9.93	9.92	10.45	9.99	7.54	7.22	9.96	M
10/25/85	9.94	9.91	9.94	9.93	10.42	10.00	7.54	7.20	9.96	M
10/26/85	9.94	9.91	9.94	9.93	10.39	9.99	7.55	7.18	9.97	M
10/27/85	10.01	9.99	10.01	10.01	10.41	10.07	7.60	7.18	10.04	M
10/28/85	10.05	10.02	10.05	10.05	10.45	10.12	7.62	7.18	10.09	M
10/29/85	10.05	10.02	10.05	10.04	10.46	10.11	7.61	7.18	10.08	M
10/30/85	10.03	10.00	10.03	10.03	10.45	10.09	7.60	7.17	10.07	M
10/31/85	9.99	9.96	9.98	9.98	10.40	10.04	7.58	7.15	10.04	M
11/ 1/85	9.96	9.94	9.97	9.97	10.38	10.03	7.59	7.14	10.02	M
11/ 2/85	9.98	9.96	9.98	9.98	10.36	10.04	7.58	7.15	10.03 E	M
11/ 3/85	9.97	9.95	9.97	9.97	10.33	10.03	7.58	7.14	10.04 E	M
11/ 4/85	10.00	9.99	10.02	10.02	10.37	10.08	7.61	7.16	10.04	M
11/ 5/85	9.99	9.98	10.03	10.02	10.35	10.09	7.60	7.15	10.04	M
11/ 6/85	9.99	9.97	10.01	10.00	10.32	10.06	7.58	7.14	10.03	M
11/ 7/85	9.99	9.96	10.00	9.99	10.31	10.05	7.58	7.11	10.03	M
11/ 8/85	9.98	9.95	9.99	9.97	10.29	10.04	7.57	7.10	10.01	M
11/ 9/85	9.98	9.95	9.98	9.96	10.26	10.03	7.57	7.09	10.02	M
11/10/85	9.97	9.94	9.97	9.95	10.25	10.03	7.57	7.09	10.01	M
11/11/85	9.96	9.93	9.97	9.94	10.23	10.02	7.57	7.09	9.98	M
11/12/85	9.96	9.93	9.96	9.93	10.22	10.00	7.59	7.10	9.97	M
11/13/85	9.96	9.93	9.96	9.93	10.21	10.00	7.60	7.09	9.96	M
11/14/85	9.95	9.92	9.95	9.92	10.19	9.99	7.61	7.09	9.96	M
11/15/85	9.95	9.91	9.94	9.91	10.18	9.98	7.60	7.09	9.94	M
11/16/85	9.93	9.90	9.93	9.90	10.16	9.97	7.59	7.08	9.94	M
11/17/85	9.92	9.89	9.92	9.89	10.14	9.96	7.58	7.07	9.93	M
11/18/85	9.93	9.90	9.93	9.90	10.13	9.97	7.49	7.06	9.93	M
11/19/85	10.00	9.95	9.97	9.93	10.14	10.00	7.23	7.06	9.96	M
11/20/85	10.01	9.94	9.94	9.89	10.13	9.97	7.32	7.05	9.95	M
11/21/85	9.94	9.90	9.91	9.87	10.11	9.94	7.44	7.03	9.93	M
11/22/85	9.92	9.90	9.92	9.89	10.14	9.96	7.45	7.05	9.93	M
11/23/85	9.95	9.92	9.96	9.93	10.16	10.01	7.44	7.08	9.96	M
11/24/85	9.97	9.93	9.97	9.94	10.15	10.01	7.43	7.06	9.96	M
11/25/85	9.97	9.93	9.96	9.93	10.13	10.00	7.42	7.04	9.96	M
11/26/85	9.96	9.92	9.95	9.92	10.11	9.99	7.38	7.03	9.95	M
11/27/85	9.95	9.91	9.94	9.91	10.11	9.98	7.32	7.02	9.94	M
11/28/85	9.93	9.90	9.93	9.90	10.08	9.97	7.30	7.00	9.94	M
11/29/85	9.91	9.89	9.92	9.89	10.07	9.96	7.28	6.99	9.92	M
11/30/85	9.90	9.88	9.90	9.88	10.05	9.94	7.27	6.98	9.91	M
12/ 1/85	9.89	9.87	9.89	9.87	10.05	9.94	7.27	6.97	9.90	M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
12/ 2/85	9.89	9.87	9.90	9.87	10.03	9.94	7.26	6.97	9.89	M
12/ 3/85	9.90	9.88	9.91	9.89	10.01	9.96	7.25	6.98	9.89	M
12/ 4/85	9.88	9.87	9.89	9.87	10.00	9.94	7.22	6.97	9.89	M
12/ 5/85	9.88	9.87	9.89	9.87	10.03	9.94	7.22	6.99	9.88	M
12/ 6/85	9.90	9.88	9.91	9.89	10.04	9.96	7.22	7.00	9.89	M
12/ 7/85	9.90	9.87	9.91	9.88	10.02	9.95	7.20	6.98	9.89	M
12/ 8/85	9.87	9.84	9.88	9.85	9.99	9.92	7.20	6.95	9.86	M
12/ 9/85	9.85	9.83	9.87	9.84	9.99	9.91	7.19	6.94	9.85	M
12/10/85	9.85	9.82	9.86	9.82	9.97	9.90	7.16	6.93	9.76	M
12/11/85	9.83	9.81	9.84	9.81	9.96	9.88	7.14	6.92	9.73	M
12/12/85	9.81	9.79	9.82	9.80	9.95	9.87	7.14	6.90	9.82	M
12/13/85	9.80	9.78	9.81	9.78	9.93	9.85	7.14	6.90	9.81	M
12/14/85	9.79	9.78	9.82	9.80	9.93	9.87	7.15	6.90	9.80	M
12/15/85	9.81	9.79	9.83	9.81	9.91	9.89	7.13	6.90	9.80	M
12/16/85	9.80	9.78	9.81	9.79	9.90	9.87	7.12	6.90	9.80	M
12/17/85	9.79	9.78	9.82	9.79	9.92	9.87	7.12	6.92	9.79	M
12/18/85	9.79	9.77	9.80	9.78	9.89	9.86	7.10	6.92	9.78	M
12/19/85	9.79	9.77	9.80	9.78	9.88	9.85	7.10	6.91	9.78	M
12/20/85	9.78	9.76	9.79	9.77	9.86	9.84	7.08	6.90	9.77	M
12/21/85	9.76	9.74	9.77	9.75	9.84	9.82	7.08	6.88	9.75	M
12/22/85	9.75	9.73	9.76	9.74	9.83	9.81	7.07	6.88	9.74	M
12/23/85	9.72	9.70	9.73	9.71	9.82	9.79	7.06	6.87	9.72	M
12/24/85	9.71	9.69	9.72	9.69	9.81	9.77	7.04	6.86	9.71	M
12/25/85	9.70	9.68	9.72	9.70	9.81	9.78	7.03	6.87	9.71	M
12/26/85	9.72	9.70	9.74	9.72	9.79	9.80	7.01	6.87	9.71	M
12/27/85	9.70	9.68	9.71	9.68	9.77	9.76	7.00	6.85	9.70	M
12/28/85	9.69	9.66	9.69	9.67	9.76	9.75	7.00	6.85	9.68	M
12/29/85	9.68	9.65	9.69	9.67	9.77	9.75	7.02	6.86	9.68	M
12/30/85	9.68	9.66	9.69	9.67	9.76	9.75	6.99	6.86	9.67	M
12/31/85	9.67	9.64	9.67	9.64	9.74	9.72	6.97	6.84	9.67	M
1/ 1/86	9.65	9.62	9.65	9.63	9.72	9.70	6.98	6.83	9.65	M
1/ 2/86	9.65	9.62	9.65	9.62	9.71	9.70	6.98	6.82	9.64	M
1/ 3/86	9.65	9.62	9.65	9.62	9.72	9.70	6.98	6.81	9.64	M
1/ 4/86	9.64	9.61	9.64	9.60	9.70	9.68	6.98	6.80	9.63	M
1/ 5/86	9.62	9.60	9.63	9.60	9.69	9.68	6.99	6.80	9.62	M
1/ 6/86	9.64	9.61	9.64	9.61	9.69	9.69	6.98	6.80	9.57	M
1/ 7/86	9.61	9.59	9.62	9.60	9.71	9.67	6.97	6.80	9.61	M
1/ 8/86	9.64	9.64	9.67	9.65	9.76	9.73	6.96	6.84	9.65	M
1/ 9/86	9.70	9.69	9.72	9.69	9.80	9.76	6.98	6.90	9.70	M
1/10/86	9.75	9.74	9.76	9.72	9.90	9.80	7.03	6.92	9.76	M
1/11/86	9.76	9.76	9.80	9.79	9.95	9.86	7.05	6.95	9.78	M
1/12/86	9.78	9.79	9.83	9.80	9.96	9.88	7.02	6.93	9.80	M
1/13/86	9.78	9.78	9.82	9.80	9.96	9.88	7.01	6.91	9.83	M
1/14/86	9.76	9.77	9.81	9.78	9.94	9.86	7.01	6.88	9.88	M
1/15/86	9.76	9.76	9.79	9.77	9.94	9.85	7.02	6.87	9.87	M
1/16/86	9.76	9.76	9.79	9.76	9.92	9.84	7.00	6.85	9.87	M
1/17/86	9.75	9.75	9.78	9.75	9.91	9.82	7.00	6.83	9.86	M
1/18/86	9.75	9.74	9.77	9.74	9.90	9.82	7.00	6.82	9.86	M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity, from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD	3A-28 COE	3B-SE COE	
1/19/86	9.72	9.71	9.75	9.73	9.89	9.81	7.02	6.80	9.84		M
1/20/86	9.73	9.73	9.76	9.75	9.90	9.82	7.01	6.81	9.85		M
1/21/86	9.73	9.73	9.77	9.75	9.89	9.82	7.01	6.80	9.85		M
1/22/86	9.73	9.73	9.76	9.73	9.87	9.81	7.03	6.79	9.84		M
1/23/86	9.72	9.72	9.75	9.73	9.87	9.80	7.04	6.78	9.84		M
1/24/86	9.72	9.72	9.75	9.73	9.86	9.81	7.04	6.77	9.83		M
1/25/86	9.72	9.72	9.74	9.71	9.84	9.79	7.03	6.78	9.83		M
1/26/86	9.69	9.69	9.72	9.70	9.83	9.77	7.05	6.77	9.81		M
1/27/86	9.68	9.68	9.72	9.71	9.83	9.79	7.05	6.77	9.80		M
1/28/86	9.69	9.69	9.74	9.72	9.81	9.80	7.01	6.76	9.80		M
1/29/86	9.67	9.67	9.70	9.67	9.78	9.75	6.99	6.74	9.78		M
1/30/86	9.66	9.66	9.68	9.65	9.77	9.74	7.00	6.74	9.77		M
1/31/86	9.66	9.65	9.68	9.65	9.77	9.73	6.99	6.73	9.76		M
2/ 1/86	9.66	9.65	9.68	9.65	9.76	9.73	6.99	6.72	9.67		M
2/ 2/86	9.65	9.64	9.66	9.63	9.74	9.71	6.99	6.71	9.66		M
2/ 3/86	9.64	9.63	9.65	9.62	9.74	9.70	6.98	6.71	9.65		M
2/ 4/86	9.62	9.61	9.63	9.60	9.74	9.67	6.98	6.69	9.63		M
2/ 5/86	9.60	9.59	9.61	9.58	9.73	9.65	6.95	6.67	9.62		M
2/ 6/86	9.57	9.57	9.59	9.57	9.72	9.64	6.96	6.67	9.61		M
2/ 7/86	9.57	9.57	9.60	9.57	9.72	9.64	6.94	6.67	9.59		M
2/ 8/86	9.56	9.56	9.58	9.56	9.71	9.62	6.94	6.66	9.59		M
2/ 9/86	9.56	9.56	9.58	9.56	9.71	9.63	6.94	6.66	9.58		M
2/10/86	9.55	9.54	9.57	9.54	9.71	9.60	6.94	6.64	9.57		M
2/11/86	9.52	9.52	9.55	9.53	9.71	9.59	6.93	6.63	9.55		M
2/12/86	9.53	9.53	9.57	9.56	9.71	9.62	6.91	6.67	9.55		M
2/13/86	9.55	9.55	9.59	9.57	9.70	9.63	6.88	6.69	9.56		M
2/14/86	9.54	9.53	9.56	9.54	9.68	9.60	6.87	6.65	9.54		M
2/15/86	9.51	9.51	9.54	9.51	9.66	9.58	6.88	6.64	9.52		M
2/16/86	9.50	9.50	9.53	9.50	9.65	9.57	6.86	6.63	9.52		M
2/17/86	9.49	9.48	9.51	9.48	9.64	9.55	6.86	6.61	9.51		M
2/18/86	9.53	9.53	9.56	9.54	9.70	9.60	6.91	6.68	9.55		M
2/19/86	9.55	9.55	9.58	9.56	9.72	9.63	6.91	6.69	9.57		M
2/20/86	9.54	9.54	9.57	9.56	9.73	9.62	6.89	6.68	9.57		M
2/21/86	9.54	9.54	9.58	9.56	9.73	9.62	6.87	6.67	9.56		M
2/22/86	9.55	9.54	9.57	9.55	9.71	9.61	6.87	6.67	9.56		M
2/23/86	9.52	9.52	9.55	9.53	9.70	9.59	6.86	6.66	9.55		M
2/24/86	9.52	9.51	9.55	9.54	9.70	9.60	6.85	6.64	9.54		M
2/25/86	9.50	9.51	9.55	9.54	9.69	9.61	6.85	6.64	9.53		M
2/26/86	9.51	9.51	9.55	9.53	9.68	9.59	6.83	6.62	9.52		M
2/27/86	9.47	9.46	9.49	9.47	9.66	9.53	6.82	6.59	9.49		M
2/28/86	9.43	9.43	9.46	9.44	9.66	9.51	6.82	6.59	9.47		M
3/ 1/86	9.45	9.46	9.51	9.51	9.69	9.58	6.84	6.60	9.47		M
3/ 2/86	9.47	9.47	9.52	9.51	9.68	9.58	6.80	6.58	9.49		M
3/ 3/86	9.46	9.45	9.15	9.47	9.65	9.54	6.79	6.51	9.47		M
3/ 4/86	9.44	9.43	9.46	9.44	9.60	9.51	6.80	6.43	9.46		M
3/ 5/86	9.43	9.42	9.46	9.44	9.58	9.51	6.80	6.43	9.44		M
3/ 6/86	9.42	9.41	9.45	9.43	9.56	9.50	6.81	6.40	9.44		M
3/ 7/86	9.40	9.39	9.43	9.40	9.55	9.47	6.79	6.39	9.42		M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
3/ 8/86	9.39	9.39	9.42	9.37	9.52	9.46	6.78	6.39	9.41	M
3/ 9/86	9.38	9.37	9.38	9.30	9.45	9.41	6.76	6.38	9.39	M
3/10/86	9.39	9.39	9.43	9.37	9.49	9.47	6.85	6.53	9.43	M
3/11/86	9.51	9.51	9.55	9.48	9.66	9.59	6.93	6.73	9.55	M
3/12/86	9.53	9.52	9.54	9.47	9.66	9.58	6.88	6.69	9.54	M
3/13/86	9.53	9.52	9.54	9.48	9.67	9.57	6.87	6.68	9.55	M
3/14/86	9.53	9.52	9.54	9.51	9.70	9.58	6.88	6.67	9.56	M
3/15/86	9.53	9.52	9.55	9.53	9.72	9.59	6.87	6.68	9.55	M
3/16/86	9.57	9.56	9.59	9.57	9.77	9.63	6.88	6.71	9.58	M
3/17/86	9.59	9.58	9.61	9.59	9.80	9.65	6.88	6.70	9.59	M
3/18/86	9.62	9.61	9.63	9.59	9.82	9.65	6.86	6.69	9.62	M
3/19/86	9.60	9.58	9.59	9.56	9.77	9.62	6.88	6.68	9.60	M
3/20/86	9.57	9.56	9.58	9.56	9.74	9.61	6.90	6.66	9.59	M
3/21/86	9.63	9.64	9.69	9.67	9.82	9.73	6.94	6.77	9.63	M
3/22/86	9.68	9.69	9.74	9.73	9.85	9.80	6.94	6.78	9.66	M
3/23/86	9.70	9.70	9.74	9.71	9.84	9.79	6.92	6.77	9.68	M
3/24/86	9.70	9.70	9.73	9.70	9.84	9.77	6.90	6.76	9.68	M
3/25/86	9.68	9.67	9.69	9.66	9.80	9.73	6.92	6.76	9.67	M
3/26/86	9.69	9.68	9.71	9.68	9.86	9.76	7.01	6.87	9.68	M
3/27/86	9.69	9.70	9.74	9.72	9.94	9.80	7.05	7.01	9.72	M
3/28/86	9.70	9.72	9.76	9.74	9.95	9.82	7.05	7.01	9.74	M
3/29/86	9.70	9.71	9.76	9.73	9.95	9.80	7.04	6.98	9.74	M
3/30/86	9.69	9.70	9.74	9.71	9.95	9.78	7.06	7.00	9.73	M
3/31/86	9.68	9.69	9.73	9.70	9.96	9.77	7.05	7.01	9.72	M
4/ 1/86	9.66	9.67	9.69	9.68	9.96	9.74	7.17	7.00	9.71	M
4/ 2/86	9.63	9.64	9.64	9.65	9.94	9.71	7.26	7.00	9.70	M
4/ 3/86	9.60	9.60	9.60	9.61	9.92	9.67	7.25	6.99	9.67	M
4/ 4/86	9.57	9.58	9.58	9.58	9.90	9.64	7.25	6.98	9.64	M
4/ 5/86	9.55	9.56	9.56	9.57	9.88	9.62	7.26	6.98	9.62	M
4/ 6/86	9.53	9.54	9.54	9.55	9.86	9.60	7.26	6.98	9.60	M
4/ 7/86	9.50	9.52	9.52	9.53	9.84	9.59	7.27	6.97	9.58	M
4/ 8/86	9.47	9.49	9.49	9.51	9.82	9.56	7.31	6.97	9.55	M
4/ 9/86	9.42	9.44	9.44	9.48	9.81	9.54	7.34	6.96	9.52	M
4/10/86	9.40	9.43	9.43	9.47	9.77	9.53	7.33	6.98	9.50	M
4/11/86	9.39	9.41	9.41	9.44	9.75	9.50	7.33	6.96	9.48	M
4/12/86	9.36	9.39	9.39	9.41	9.72	9.47	7.33	6.95	9.46	M
4/13/86	9.39	9.41	9.41	9.44	9.74	9.49	7.36	6.99	9.48	M
4/14/86	9.39	9.41	9.41	9.44	9.72	9.50	7.33	7.01	9.48	M
4/15/86	9.38	9.40	9.40	9.42	9.69	9.48	7.28	6.99	9.46	M
4/16/86	9.35	9.38	9.38	9.41	9.68	9.47	7.22	7.00	9.44	M
4/17/86	9.33	9.36	9.36	9.40	9.69	9.46	7.19	6.99	9.42	M
4/18/86	9.33	9.35	9.35	9.39	9.71	9.45	7.18	6.98	9.41	M
4/19/86	9.35	9.35	9.35	9.37	9.68	9.43	7.16	6.97	9.39	M
4/20/86	9.35	9.35	9.35	9.34	9.65	9.41	7.15	6.95	9.38	M
4/21/86	9.31	9.32	9.32	9.31	9.65	9.39	7.16	6.92	9.36	M
4/22/86	9.30	9.31	9.31	9.31	9.63	9.40	7.14	6.92	9.36	M
4/23/86	9.30	9.31	9.31	9.31	9.60	9.40	7.11	6.91	9.35	M
4/24/86	9.29	9.30	9.30	9.30	9.56	9.37	7.09	6.88	9.33	M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD	3A-28 COE	3B-SE COE	
4/25/86	9.28	9.28	9.28	9.28	9.53	9.35	7.09	6.65	9.31		M
4/26/86	9.26	9.26	9.26	9.26	9.50	9.33	7.09	6.37	9.29		M
4/27/86	9.24	9.24	9.24	9.25	9.46	9.31	7.08	6.35	9.28		M
4/28/86	9.22	9.23	9.23	9.23	9.43	9.29	7.08	6.32	9.26		M
4/29/86	9.20	9.21	9.21	9.22	9.40	9.27	7.05	6.20	9.24		M
4/30/86	9.18	9.19	9.19	9.19	9.37	9.25	7.03	6.09	9.22		M
5/ 1/86	9.17	9.17	9.17	9.17	9.33	9.22	7.02	6.06	9.19		M
5/ 2/86	9.14	9.14	9.15	9.14	9.29	9.19	7.01	6.03	9.18		M
5/ 3/86	9.11	9.11	9.14	9.11	9.27	9.17	7.02	6.00	9.15		M
5/ 4/86	9.10	9.10	9.13	9.10	9.24	9.16	6.99	5.98	9.14		M
5/ 5/86	9.09	9.08	9.10	9.06	9.20	9.12	6.99	5.98	9.11		M
5/ 6/86	9.07	9.06	9.07	9.05	9.17	9.10	6.95	5.95	9.10		M
5/ 7/86	9.05	9.04	9.06	9.04	9.15	9.09	6.91	5.93	9.07		M
5/ 8/86	9.03	9.02	9.04	9.01	9.13	9.07	6.92	5.90	9.05		M
5/ 9/86	8.99	8.99	9.02	8.99	9.13	9.05	6.91	5.94	9.03		M
5/10/86	9.00	9.00	9.02	8.99	9.11	9.05	6.88	6.05	9.02		M
5/11/86	8.98	8.98	9.00	8.97	9.09	9.03	6.89	6.00	9.00		M
5/12/86	8.95	8.95	8.97	8.93	9.08	8.99	6.90	5.94	8.98		M
5/13/86	8.93	8.93	8.94	8.91	9.05	8.97	6.87	5.91	8.96		M
5/14/86	8.93	8.92	8.94	8.90	9.01	8.96	6.85	5.88	8.94		M
5/15/86	8.92	8.90	8.92	8.88	9.00	8.94	6.84	5.84	8.93		M
5/16/86	8.91	8.89	8.89	8.86	8.99	8.92	6.82	5.80	8.91		M
5/17/86	8.88	8.86	8.87	8.83	8.98	8.89	6.81	5.76	8.89		M
5/18/86	8.85	8.83	8.84	8.80	8.95	8.86	6.80	5.71	8.86		M
5/19/86	8.82	8.80	8.81	8.77	8.94	8.84	6.79	5.47	8.83		M
5/20/86	8.79	8.77	8.79	8.75	8.93	8.82	6.78	5.29	8.82		M
5/21/86	8.78	8.77	8.79	8.76	8.93	8.83	6.77	5.34	8.80		M
5/22/86	8.83	8.82	8.85	8.81	9.03	8.88	6.80	5.58	8.86		M
5/23/86	8.88	8.87	8.88	8.85	9.11	8.92	6.79	5.93	8.90		M
5/24/86	8.86	8.85	8.87	8.84	9.10	8.91	6.77	6.25	8.87		M
5/25/86	8.85	8.84	8.85	8.82	9.06	8.89	6.76	6.29	8.85		M
5/26/86	8.83	8.82	8.84	8.80	9.03	8.87	6.74	6.28	8.83		M
5/27/86	8.82	8.80	8.82	8.78	9.00	8.84	6.72	6.08	8.81		M
5/28/86	8.80	8.77	8.79	8.75	8.96	8.82	6.75	5.70	8.79		M
5/29/86	8.77	8.75	8.77	8.73	8.93	8.80	6.76	5.61	8.77		M
5/30/86	8.74	8.73	8.75	8.71	8.90	8.77	6.76	5.36	8.75		M
5/31/86	8.72	8.71	8.73	8.68	8.86	8.75	6.75	5.20	8.73		M
6/ 1/86	8.70	8.69	8.71	8.67	8.84	8.74	6.76	5.16	8.71		M
6/ 2/86	8.72	8.71	8.73	8.69	8.87	8.76	6.77	5.13	8.71		M
6/ 3/86	8.74	8.73	8.75	8.71	8.87	8.77	6.75	5.14	8.72		M
6/ 4/86	8.73	8.73	8.74	8.70	8.84	8.77	6.73	5.06	8.73		M
6/ 5/86	8.71	8.73	8.72	8.68	8.83	8.74	6.73	4.96	8.72		M
6/ 6/86	8.70	8.72	8.70	8.66	8.82	8.72	6.75	4.89	8.72		M
6/ 7/86	8.75	8.77	8.73	8.68	8.84	8.74	6.74	4.85	8.75		M
6/ 8/86	8.78	8.80	8.76	8.71	8.89	8.77	6.76	5.11	8.77		M
6/ 9/86	8.79	8.80	8.78	8.75	8.96	8.81	6.75	5.44	8.79		M
6/10/86	8.80	8.79	8.79	8.76	8.98	8.82	6.72	5.67	8.78		M
6/11/86	8.79	8.78	8.80	8.75	8.95	8.82	6.66	5.98	8.82		M

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
6/12/86	8.82	8.81	8.84	8.81	9.03	8.88	6.73	6.08	8.86	M
6/13/86	8.89	8.88	8.91	8.89	9.15	8.96	6.84	6.26	8.88	M
6/14/86	8.91	8.89	8.92	8.89	9.20	8.96	6.81	6.31	8.88	M
6/15/86	8.93	8.92	8.96	8.93	9.28	8.99	6.80	6.41	8.94	M
6/16/86	8.98	8.97	9.01	8.98	9.34	9.05	6.81	6.44	9.04	M
6/17/86	9.05	9.04	9.09	9.06	9.39	9.13	6.84	6.46	9.11	6.16 P
6/18/86	9.06	9.05	9.08	9.06	9.42	9.13	6.85	6.47	9.08	6.18
6/19/86	9.10	9.09	9.13	9.12	9.46	9.19	6.87 P	6.50	9.12	6.22
6/20/86	9.25	9.25	9.29	9.29	9.53	9.37	M	6.58	9.32	6.37
6/21/86	9.27	9.27	9.31	9.29	9.51	9.36	M	6.61	9.31	6.49
6/22/86	9.29	9.28	9.32	9.29	9.55	9.36	M	6.64	9.30	6.55
6/23/86	9.29	9.28	9.32	9.29	9.59	9.36	7.11 P	6.65	9.31	6.60
6/24/86	9.26	9.26	9.30	9.27	9.63	9.35	7.27	6.66	9.32	6.64
6/25/86	9.25	9.26	9.30	9.28	9.67	9.35	7.28	6.69	9.33	6.65
6/26/86	9.26	9.25	9.29	9.27	9.74	9.35	7.29	6.73	9.33	6.64
6/27/86	9.27	9.27	9.31	9.29	9.78	9.37	7.30	6.76	9.34	6.63
6/28/86	9.29	9.28	9.32	9.32	9.84	9.40	7.32	6.79	9.37	6.66
6/29/86	9.34	9.33	9.37	9.36	9.94	9.44	7.34	6.86	9.42	6.72
6/30/86	9.39	9.38	9.42	9.42	10.03	9.49	7.38	6.90	9.48	6.81
7/ 1/86	9.33	9.37	9.43	9.41	10.10	9.49	7.41	6.94	9.49	6.88
7/ 2/86	9.30	9.33	9.40	9.39	10.14	9.47	7.45	6.99	9.49	6.94
7/ 3/86	9.27	9.31	9.37	9.36	10.14	9.44	7.52	7.01	9.49	7.04
7/ 4/86	9.26	9.30	9.37	9.36	10.15	9.44	7.55	7.04	9.48	7.16
7/ 5/86	9.27	9.32	9.39	9.39	10.19	9.47	7.56	7.05	9.48	7.23
7/ 6/86	9.30	9.36	9.43	9.43	10.22	9.51	7.56	7.14	9.48	7.33
7/ 7/86	9.32	9.37	9.44	9.45	10.25	9.53	7.54	7.21	9.49	7.43
7/ 8/86	9.28	9.31	9.36	9.37	10.25	9.46	7.55	7.18	9.51	7.47
7/ 9/86	9.24	9.27	9.32	9.33	10.28	9.43	7.54	7.18	9.53	7.48
7/10/86	9.23	9.26	9.31	9.32	10.28	9.42	7.55	7.17	9.55	7.49
7/11/86	9.26	9.27	9.32	9.34	10.31	9.43	7.55	7.16	9.57	7.49
7/12/86	9.24	9.26	9.31	9.34	10.31	9.42	7.54	7.15	9.57	7.48
7/13/86	9.23	9.26	9.31	9.34	10.32	9.42	7.55	7.16	9.56	7.47
7/14/86	9.23	9.26	9.32	9.34	10.34	9.42	7.55	7.16	9.56	7.47
7/15/86	9.23	9.26	9.31	9.33	10.33	9.42	7.55	7.14	9.55	7.46
7/16/86	9.22	9.25	9.30	9.33	10.33	9.41	7.53	7.14	9.55	7.45
7/17/86	9.21	9.24	9.30	9.32	10.31	9.40	7.52	7.11	9.56	7.44
7/18/86	9.21	9.24	9.29	9.32	10.31	9.40	7.54	7.11	9.56	7.43
7/19/86	9.25	9.27	9.32	9.35	10.30	9.42	7.56	7.10	9.56	7.42
7/20/86	9.22	9.24	9.30	9.33	10.28	9.41	7.57	7.10	9.56	7.41
7/21/86	9.21	9.24	9.30	9.32	10.25	9.40	7.57	7.10	9.56	7.42
7/22/86	9.27	9.31	9.37	9.38	10.24	9.45	7.58	7.13	9.56	7.43
7/23/86	9.26	9.30	9.37	9.40	10.24	9.47	7.60	7.17	9.56	7.51
7/24/86	9.25	9.29	9.36	9.38	10.22	9.46	7.60 P	7.16 P	9.55	7.51
7/25/86	9.24	9.27	9.35	9.37	10.21	9.44	7.60	7.16	9.54	7.51
7/26/86	9.25	9.28	9.36	9.40	10.21	9.48	7.61	7.16	9.54	7.53
7/27/86	9.30	9.35	9.44	9.49	10.26	9.57	7.59	7.17	9.53	7.54
7/28/86	9.31	9.36	9.45	9.50	10.25	9.58	7.54	7.16	9.53	7.57
7/29/86	9.31	9.36	9.46	9.51	10.22	9.59	7.51	7.15	9.50	7.56

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity, from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
7/30/86	9.31	9.35	9.44	9.50	10.18	9.57	7.51	7.15	9.50	7.54
7/31/86	9.29	9.34	9.43	9.48	10.16	9.55	7.54	7.15	9.49	7.52
8/ 1/86	M	9.35	9.43	9.48	10.14	9.54	7.56	7.14	9.63	7.51
8/ 2/86	M	9.36	9.43	9.46	10.13	9.53	7.60	7.15	9.63	7.51
8/ 3/86	M	9.35	9.43	9.46	10.12	9.53	7.60	7.16	9.64	7.52
8/ 4/86	M	9.36	9.43	9.47	10.13	9.55	7.60	7.19	9.66	7.55
8/ 5/86	M	9.36	9.44	9.47	10.13	9.55	7.57	7.21	9.65	7.58
8/ 6/86	M	9.36	9.41	9.49	10.10	9.55	7.55	7.19	9.63	7.56
8/ 7/86	M	9.35	9.41	9.48	10.08	9.54	7.54	7.17	9.62	7.53
8/ 8/86	M	9.34	9.42	9.46	10.07	9.53	7.52	7.16	9.60	7.50
8/ 9/86	M	9.33	9.43	9.45	10.04	9.51	7.52	7.16	9.59	7.51
8/10/86	M	9.31	9.43	9.42	10.00	9.49	7.52	7.16	9.57	7.48
8/11/86	M	9.34	9.44	9.46	10.04	9.53	7.57	7.22	9.62	7.56
8/12/86	M	9.36	9.44	9.47	10.05	9.54	7.57	7.20	9.60	7.56
8/13/86	M	9.39	9.46	9.49	10.04	9.55	7.59	7.20	9.59	7.55
8/14/86	M	9.42	9.48	9.53	10.03	9.59	7.59	7.21	9.64	7.55
8/15/86	M	9.41	9.50	9.52	10.01	9.58	7.55	7.20	9.63	7.56
8/16/86	M	9.42	9.52	9.53	10.04	9.60	7.60	7.24	9.64	7.64
8/17/86	M	9.46	9.54	9.58	10.14	9.65	7.60	7.31	9.65	7.83
8/18/86	M	9.49	9.56	9.61	10.16	9.69	7.57	7.32	9.71	7.88
8/19/86	M	9.48	9.38	9.62	10.22	9.71	7.50	7.32	9.71	7.89
8/20/86	M	9.50	7.88	9.62	10.20	9.71	7.47	7.33	9.72	7.89
8/21/86	M	9.59	7.93	9.65	10.21	9.74	7.53	7.33	9.75	7.89
8/22/86	M	9.62	8.30	9.66	10.20	9.77	7.55	7.33	9.78	7.86
8/23/86	M	9.63	8.67	9.67	10.17	9.77	7.55	7.32	9.79	7.84
8/24/86	M	9.64	9.04	9.67	10.16	9.78	7.57	7.31	9.80	7.82
8/25/86	M	9.64	9.41	9.67	10.15	9.78	7.58	7.29	9.80	7.82
8/26/86	M	9.65	9.71	9.68	10.15	9.78	7.56	7.29	9.80	7.81
8/27/86	M	9.63	9.74	9.67	10.13	9.76	7.54	7.28	9.80	7.78
8/28/86	M	9.63	9.74	9.66	10.12	9.76	7.55	7.28	9.80	7.75
8/29/86	M	9.63	9.74	9.66	10.13	9.76	7.54	7.28	9.80	7.72
8/30/86	M	9.61	9.74	9.66	10.10	9.74	7.54	7.27	9.79	7.70
8/31/86	M	9.60	9.74	9.65	10.08	9.72	7.53	7.27	9.77	7.68
9/ 1/86	M	9.59	9.74	9.63	10.06	9.71	7.53	7.26	9.76	7.65
9/ 2/86	M	9.57	9.75	9.61	10.04	9.70	7.55	7.24	9.75	7.63
9/ 3/86	M	9.57	9.75	9.60	10.03	9.70	7.58	7.26	9.75	7.62
9/ 4/86	M	9.59	9.75	9.62	10.05	9.72	7.59	7.33	9.76	7.66
9/ 5/86	M	9.61	9.75	9.65	10.11	9.76	7.62	7.41	9.78	7.76
9/ 6/86	M	9.62	9.75	9.67	10.13	9.78	7.60	7.39	9.81	7.78
9/ 7/86	M	9.66	9.75	9.69	10.14	9.81	7.60	7.39	9.85	7.78
9/ 8/86	M	9.67	9.75	9.71	10.13	9.81	7.60	7.41	9.85	7.80
9/ 9/86	M	9.69	9.75	9.73	10.13	9.81	7.59	7.39	9.85	7.80
9/10/86	M	9.71	9.75	9.74	10.11	9.82	7.56	7.36	9.84	7.77
9/11/86	M	9.70	9.75	9.74	10.08	9.80	7.55	7.33	9.84	7.74
9/12/86	M	9.69	9.74	9.75	10.07	9.80	7.56	7.32	9.84	7.70
9/13/86	M	9.69	9.74	9.75	10.06	9.79	7.58	7.31	9.83	7.67
9/14/86	M	9.67	9.74	9.75	10.03	9.77	7.56	7.29	9.82	7.63
9/15/86	M	9.66	9.73	9.76	10.05	9.76	7.54	7.30	9.81	7.60

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity, from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD	3A-28 COE	3B-SE COE
9/16/86	M	9.68	9.73	9.76	10.09	9.76	7.54	7.28	9.80	7.57
9/17/86	M	9.69	9.75	9.77	10.10	9.76	7.55	7.25	9.79	7.54
9/18/86	M	9.67	9.76	9.77	10.10	9.77	7.54	7.23	9.78	7.52
9/19/86	M	9.70	9.77	9.78	10.09	9.77	7.55	7.21	9.78	7.49
9/20/86	M	9.70	9.79	9.78	10.08	9.78	7.56	7.19	9.79	7.48
9/21/86	M	9.74	9.80	9.78	10.08	9.82	7.57	7.20	9.79	7.53
9/22/86	M	9.77	9.81	9.79	10.12	9.85	7.55	7.19	9.79	7.51
9/23/86	M	9.78	9.82	9.79	10.14	9.86	7.54	7.20	9.84	7.49
9/24/86	M	9.80	9.83	9.79	10.17	9.89	7.55	7.23	9.85	7.49
9/25/86	M	9.82	9.83	9.79	10.17	9.90	7.54	7.22	9.86	7.50
9/26/86	M	9.82	9.84	9.80	10.18	9.90	7.55	7.21	9.87	7.49
9/27/86	M	9.82	9.85	9.80	10.16	9.90	7.54	7.19	9.89	7.47
9/28/86	M	9.82	9.85	9.80	10.15	9.89	7.55	7.16	9.90	7.45
9/29/86	M	9.81	9.86	9.80	10.16	9.88	7.57	7.15	9.91	7.43
9/30/86	M	9.81	9.85	9.80 P	10.15	9.88	7.57	7.13	9.91	7.41
10/ 1/86	9.81	9.81	9.83	9.81	10.14	9.87	7.57	7.12	9.89	7.39
10/ 2/86	9.81	9.81	9.84	9.82	10.13	9.87	7.56	7.11	9.90	7.38
10/ 3/86	9.82	9.82	9.84	9.82	10.13	9.88	7.56	7.10	9.90	7.37
10/ 4/86	9.80	9.81	9.84	9.81	10.12	9.87	7.56	7.09	9.90	7.35
10/ 5/86	9.80	9.81	9.83	9.81	10.12	9.87	7.56	7.07	9.89	7.33
10/ 6/86	9.78	9.79	9.82	9.79	10.10	9.85	7.55	7.07	9.89	7.31
10/ 7/86	9.77	9.78	9.80	9.78	10.08	9.84	7.56	7.05	9.86	7.29
10/ 8/86	9.76	9.75	9.79	9.76	10.08	9.82	7.60	7.04	9.85	7.28
10/ 9/86	9.74	9.74	9.77	9.74	10.06	9.80	7.62	7.02	9.83	7.25
10/10/86	9.73	9.72	9.75	9.73	10.04	9.79	7.64	7.04	9.82	7.28
10/11/86	9.73	9.72	9.76	9.73	10.05	9.79	7.62	7.06	9.81	7.39
10/12/86	9.72	9.72	9.75	9.73	10.04	9.79	7.58	7.05	9.80	7.36
10/13/86	9.71	9.71	9.74	9.72	10.02	9.78	7.56	7.05 P	9.79	7.34
10/14/86	9.69	9.69	9.72	9.70	10.01	9.76	7.55	M	9.78	7.30
10/15/86	9.70	9.70	9.73	9.71	10.03	9.77	7.56	M	9.79	7.27
10/16/86	9.72	9.72	9.75	9.73	10.08 <	9.80	7.57	M	9.81	7.25
10/17/86	9.71	9.71	9.74	9.73	10.08 <	9.79	7.56	7.04 P	9.81	7.23
10/18/86	9.69	9.69	9.72	9.71	10.08 <	9.77	7.55	7.03	9.80	7.20
10/19/86	9.69	9.69	9.72	9.71	10.08 <	9.78	7.55	7.05	9.79	7.18
10/20/86	9.68	9.68	9.71	9.70	10.07 <	9.77	7.55	7.05	9.78	7.17
10/21/86	9.67	9.68	9.71	9.69	10.07 <	9.76	7.54	7.04	9.76	7.15
10/22/86	9.67	9.67	9.70	9.68	10.08 <	9.75	7.52	7.02	9.75	7.12
10/23/86	9.66	9.66	9.69	9.66	10.09 <	9.74	7.51	7.01	9.74	7.10
10/24/86	9.65	9.65	9.67	9.65	10.08 <	9.72	7.49	7.00	9.73	7.08
10/25/86	9.63	9.63	9.66	9.64	10.05 <	9.71	7.49	6.98	9.72	7.06
10/26/86	9.62	9.62	9.64	9.63	10.04 <	9.70	7.49	6.96	9.70	7.05
10/27/86	9.61	9.61	9.63	9.62	10.04 <	9.69	7.48	6.97	9.69	7.02
10/28/86	9.62	9.62	9.66	9.65	10.03 <	9.72	7.47	7.01	9.69	7.02
10/29/86	9.69	9.69	9.73	9.73	10.02 <	9.80	7.44	7.00	9.76	7.05
10/30/86	9.72	9.72	9.76	9.75	10.02 <	9.82	7.41	7.00	9.79	7.03
10/31/86	9.74	9.74	9.77	9.76	10.03 <	9.83	7.39	6.98	9.80	7.02
11/ 1/86	9.76	9.76	9.79	9.77	10.03 <	9.84	7.38	6.97	9.77	7.02
11/ 2/86	9.76	9.76	9.80	9.78	10.03 <	9.85	7.37	6.97	9.75	7.01

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A USGS	S-12B USGS	S-12C USGS	S-12D USGS	S-151 WMD	S-333 USGS	S-334 WMD	S-335 WMD	3A-28 COE	3B-SE COE
11/ 3/86	9.77	9.77	9.80	9.78	10.02 <	9.85	7.36	6.96	9.74	7.00
11/ 4/86	9.77	9.76	9.79	9.77	9.99	9.84	7.35	6.95	9.74	6.98
11/ 5/86	9.76	9.76	9.79	9.77	9.98	9.84	7.33	6.95	9.74	6.97
11/ 6/86	9.76	9.76	9.78	9.76	9.97	9.83	7.30	6.93	9.74	6.95
11/ 7/86	9.76	9.75	9.78	9.76	9.96	9.82	7.28	6.93	9.71	6.94
11/ 8/86	9.87	9.75	9.77	9.76	9.94	9.82	7.27	6.93	9.69	6.93
11/ 9/86	9.76	9.75	9.78	9.75	9.94	9.82	7.27	6.93	9.69	6.92
11/10/86	9.76	9.75	9.77	9.75	9.95	9.82	7.25	6.80	9.75	6.90
11/11/86	9.75	9.74	9.77	9.75	9.95	9.81	7.22	6.63	9.76	6.88
11/12/86	9.74	9.74	9.76	9.74	9.97	9.81	7.20	6.60	9.78	6.86
11/13/86	9.74	9.74	9.76	9.74	9.98	9.81	7.17	6.48	9.79	6.84
11/14/86	9.77	9.77	9.80	9.78	10.03	9.85	7.19	6.42	9.78	6.86
11/15/86	9.79	9.79	9.82	9.80	10.09	9.87	7.22	6.46	9.80	6.95
11/16/86	9.80	9.79	9.83	9.80	10.11	9.87	7.21	6.44	9.82	6.96
11/17/86	9.80	9.80	9.83	9.81	10.13	9.88	7.20	6.50	9.84	6.95
11/18/86	9.80	9.80	9.84	9.82	10.11	9.89	7.18	6.71	9.85	6.94
11/19/86	9.81	9.80	9.84	9.84	10.11	9.89	7.15	6.73	9.86	6.92
11/20/86	9.81	9.80	9.84	9.83	10.11	9.89	7.14	6.72	9.86	6.91
11/21/86	9.81	9.81	9.84	9.83	10.10	9.89	7.13	6.72	9.87	6.89
11/22/86	9.82	9.81	9.84	9.83	10.09	9.89	7.12	6.76	9.87	6.93
11/23/86	9.81	9.81	9.84	9.82	10.07	9.88	7.11	6.80	9.87	6.98
11/24/86	9.81	9.81	9.83	9.82	10.07	9.88	7.10	6.76	9.86	6.96
11/25/86	9.81	9.80	9.83	9.81	10.07	9.88	7.10	6.74	9.85	6.93
11/26/86	9.80	9.79	9.82	9.81	10.06	9.87	7.07	6.73	9.85	6.91
11/27/86	9.80	9.79	9.83	9.81	10.05	9.87	7.07	6.73	9.85	6.89
11/28/86	9.80	9.79	9.82	9.81	10.04	9.87	7.05	6.72	9.84	6.88
11/29/86	9.80	9.79	9.82	9.80	10.04	9.87	7.07	6.75	9.85	6.89
11/30/86	9.79	9.79	9.82	9.81	10.06	9.87	7.07	6.84	9.85	6.87
12/ 1/86	9.79	9.79	9.83	9.81	10.06	9.87	7.08	6.87	9.85	6.85
12/ 2/86	9.79	9.79	9.82	9.81	10.04	9.87	7.08	6.87	9.85	6.84
12/ 3/86	9.80	9.79	9.83	9.82	10.02	9.87	7.07	6.88	9.84	6.83
12/ 4/86	9.79	9.79	9.82	9.81	10.00	9.87	7.06	6.88	9.84	6.82
12/ 5/86	9.79	9.79	9.82	9.81	9.99	9.87	7.06	6.88	9.83	6.81
12/ 6/86	9.80	9.80	9.83	9.82	9.98	9.88	7.05	6.88	9.83	6.80
12/ 7/86	9.79	9.78	9.81	9.80	9.97	9.86	7.03	6.87	9.82	6.78
12/ 8/86	9.78	9.77	9.79	9.77	9.96	9.84	7.02	6.86	9.82	6.76
12/ 9/86	9.76	9.75	9.78	9.77	9.94	9.83	7.01	6.85	9.80	6.76
12/10/86	9.75	9.75	9.77	9.75	9.94	9.82	6.97	6.84	9.80	6.75
12/11/86	9.74	9.73	9.76	9.75	9.94	9.81	6.97	6.86	9.79	6.74
12/12/86	9.73	9.73	9.75	9.75	9.93	9.80	6.95	6.86	9.78	6.72
12/13/86	9.74	9.73	9.76	9.75	9.91	9.82	6.94	6.86	9.78	6.71
12/14/86	9.74	9.73	9.76	9.74	9.89	9.81	6.92	6.85	9.77	6.69
12/15/86	9.73	9.72	9.75	9.73	9.90	9.79	6.88	6.84	9.77	6.68
12/16/86	9.71	9.70	9.73	9.72	9.88	9.77	6.87	6.83	9.75	6.65
12/17/86	9.70	9.69	9.71	9.72	9.87	9.76	6.86	6.82	9.74	6.64
12/18/86	9.68	9.67	9.70	9.70	9.85	9.74	6.85	6.81	9.74	6.62
12/19/86	9.66	9.66	9.68	9.69	9.84	9.72	6.84	6.80	9.71	6.60
12/20/86	9.65	9.64	9.67	9.67	9.83	9.71	6.84	6.80	9.70	6.58

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity, from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
12/21/86	9.64	9.63	9.66	9.67	9.83	9.71	6.82	6.82	9.68	6.55
12/22/86	9.63	9.63	9.65	9.66	9.83	9.69	6.81	6.80	9.67	6.54
12/23/86	9.62	9.61	9.62	9.63	9.80	9.66	6.80	6.78	9.66	6.53
12/24/86	9.66	9.66	9.68	9.67	9.81	9.72	6.83	6.80	9.70	6.54
12/25/86	9.69	9.68	9.71	9.71	9.88	9.76	6.81	6.82	9.71	6.54
12/26/86	9.70	9.70	9.73	9.74	9.88	9.78	6.81	6.82	9.73	6.53
12/27/86	9.78	9.78	9.81	9.80	9.96	9.85	6.82	6.86	9.75	6.57
12/28/86	9.84	9.84	9.87	9.86	10.02	9.92	6.84	6.88	9.78	6.61
12/29/86	9.84	9.83	9.87	9.87	10.04	9.91	6.83	6.87	9.80	6.62
12/30/86	9.83	9.83	9.86	9.87	10.04	9.91	6.83	6.86	9.83	6.62
12/31/86	9.84	9.83	9.86	9.87	10.06	9.91	6.87	6.86	9.87	6.65
1/ 1/87	9.86	9.86	9.91	9.92	10.15	9.97	6.95	6.89	10.03	6.73
1/ 2/87	9.88	9.88	9.93	9.94	10.18	9.98	6.90	6.90	10.02	6.72
1/ 3/87	9.89	9.89	9.93	9.94	10.15	9.99	6.89	6.88	10.02	6.69
1/ 4/87	9.90	9.90	9.94	9.94	10.19	9.99	6.91	6.88	10.02	6.69
1/ 5/87	9.94	9.96	10.01	10.01	10.27	10.07	6.92	6.92	10.02	6.71
1/ 6/87	9.99	10.00	10.04	10.04	10.27	10.10	6.91	6.89	10.01	6.68
1/ 7/87	9.97	9.97	10.01	10.00	10.27	10.06	6.98	6.88	10.01	6.66
1/ 8/87	9.97	9.96	10.00	9.99	10.27	10.05	7.00	6.87	10.01	6.66
1/ 9/87	9.96	9.96	9.99	9.99	10.27	10.05	6.99	6.86	10.01	6.66
1/10/87	9.95	9.95	9.98	9.97	10.27	10.03	7.00	6.84	10.01	6.65
1/11/87	9.95	9.96	10.00	10.00	10.28	10.06	7.01	6.85	10.00	6.64
1/12/87	9.97	9.97	10.01	10.01	10.29	10.07	7.01	6.84	10.01	6.62
1/13/87	9.95	9.95	9.99	10.00	10.29	10.05	7.02	6.83	10.00	6.60
1/14/87	9.94	9.94	9.97	9.97	10.29	10.03	7.06	6.83	10.00	6.60
1/15/87	9.93	9.93	9.96	9.96	10.27	10.02	7.08	6.83	9.99	6.58
1/16/87	9.93	9.93	9.96	9.96	10.28	10.01	7.09	6.82	9.99	6.57
1/17/87	9.93	9.92	9.96	9.95	10.28	10.01	7.07	6.81	9.99	6.55
1/18/87	9.92	9.92	9.95	9.94	10.26	10.00	7.08	6.80	9.99	6.55
1/19/87	9.91	9.91	9.94	9.94	10.25	9.99	7.09	6.80	9.98	6.53
1/20/87	9.91	9.91	9.94	9.94	10.25	9.99	7.07	6.80	9.97	6.52
1/21/87	9.90	9.90	9.93	9.92	10.23	9.97	7.07	6.79	9.97	6.51
1/22/87	9.87	9.87	9.91	9.90	10.22	9.95	7.09	6.78	9.96	6.49
1/23/87	9.89	9.90	9.94	9.94	10.23	9.99	7.00	6.80	9.95	6.48
1/24/87	9.89	9.89	9.92	9.91	10.20	9.96	6.93	6.78	9.95	6.47
1/25/87	9.86	9.86	9.89	9.88	10.19	9.93	6.95	6.77	9.94	6.48
1/26/87	9.84	9.85	9.89	9.89	10.20	9.94	6.96	6.77	9.93	6.47
1/27/87	9.85	9.85	9.89	9.89	10.18	9.94	6.98	6.77	9.92	6.46
1/28/87	9.85	9.85	9.88	9.88	10.17	9.92	7.03	6.76	9.92	6.45
1/29/87	9.84	9.83	9.86	9.86	10.14	9.91	7.03	6.76	9.90	6.44
1/30/87	9.83	9.83	9.86	9.85	10.12	9.90	7.03	6.75	9.89	6.42
1/31/87	9.82	9.82	9.85	9.86	10.09	9.89	7.03	6.75	9.88	6.41
2/ 1/87	9.81	9.81	9.83	9.83	10.05	9.87	7.03	6.74	9.87	6.39
2/ 2/87	9.78	9.78	9.80	9.80	10.04	9.85	7.02	6.73	9.86	6.38
2/ 3/87	9.77	9.77	9.80	9.80	10.04	9.85	7.02	6.73	9.84	6.37
2/ 4/87	9.78	9.78	9.81	9.80	10.03	9.85	7.01	6.73	9.84	6.35
2/ 5/87	9.80	9.79	9.81	9.80	10.03	9.85	7.05	6.77	9.83	6.35
2/ 6/87	9.80	9.80	9.83	9.82	10.03	9.87	7.07	6.79	9.84	6.38

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
2/ 7/87	9.82	9.82	9.85	9.85	10.06	9.90	7.08	6.80	9.86	6.39
2/ 8/87	9.82	9.82	9.87	9.87	10.07	9.92	7.08	6.80	9.87	6.39
2/ 9/87	9.82	9.82	9.85	9.84	10.06	9.89	7.02	6.79	9.86	6.38
2/10/87	9.81	9.81	9.84	9.82	10.03	9.87	7.03	6.78	9.84	6.37
2/11/87	9.79	9.78	9.81	9.80	10.02	9.84	7.03	6.77	9.83	6.36
2/12/87	9.77	9.76	9.79	9.78	10.00	9.82	7.04	6.76	9.82	6.34
2/13/87	9.75	9.75	9.77	9.76	9.97	9.81	7.03	6.75	9.80	6.33
2/14/87	9.74	9.73	9.76	9.75	9.96	9.79	7.03	6.74	9.79	6.32
2/15/87	9.73	9.72	9.74	9.73	9.95	9.77	7.02	6.73	9.78	6.31
2/16/87	9.68	9.67	9.68	9.66	9.94	9.71	7.04	6.70	9.77	6.32
2/17/87	9.68	9.68	9.70	9.69	9.94	9.73	7.03	6.72	9.73	6.32
2/18/87	9.74	9.73	9.76	9.74	9.97	9.79	7.02	6.77	9.78	6.32
2/19/87	9.79	9.78	9.81	9.79	9.99	9.84	7.00	6.78	9.82	6.33
2/20/87	9.79	9.77	9.79	9.77	9.97	9.82	6.99	6.76	9.82	6.34
2/21/87	9.75	9.74	9.76	9.74	9.95	9.78	7.01	6.75	9.81	6.34
2/22/87	9.73	9.72	9.75	9.73	9.95	9.77	7.01	6.76	9.79	6.34
2/23/87	9.72	9.71	9.74	9.73	9.94	9.76	6.97 E	6.78 E	9.76	6.33
2/24/87	9.72	9.70	9.72	9.71	9.92	9.74	6.95	6.77	9.75	6.33
2/25/87	9.71	9.69	9.70	9.68	9.89	9.71	6.97	6.76	9.74	6.32
2/26/87	9.68	9.66	9.67	9.64	9.86	9.68	6.97	6.76	9.71	6.33
2/27/87	9.65	9.63	9.64	9.62	9.85	9.65	6.98	6.74	9.69	6.32
2/28/87	9.61	9.59	9.60	9.57	9.82	9.61	6.97	6.73	9.67	6.32
3/ 1/87	9.58	9.56	9.57	9.53	9.80	9.58	6.98	6.71	9.63	6.32
3/ 2/87	9.62	9.61	9.62	9.58	9.82	9.63	7.01	6.75	9.64	6.34
3/ 3/87	9.63	9.62	9.63	9.59	9.81	9.64	7.02	6.75	9.65	6.36
3/ 4/87	9.63	9.62	9.63	9.59	9.79	9.64	7.02	6.75	9.65	6.36
3/ 5/87	9.63	9.61	9.63	9.60	9.77	9.65	7.03	6.75	9.63	6.37
3/ 6/87	9.66	9.64	9.65	9.62	9.76	9.67	7.01	6.74	9.64	6.36
3/ 7/87	9.97	9.95	9.97	9.94	9.96	9.98	7.19	6.88	10.02	6.55
3/ 8/87	9.94	9.94	9.97	9.95	10.07	10.00	7.19	6.86	10.01	6.62
3/ 9/87	9.92	9.92	9.95	9.94	10.10	9.99	7.15	6.86	9.99	6.63
3/10/87	9.92	9.93	9.96	9.96	10.11	10.01	7.13	6.87	9.98	6.64
3/11/87	9.91	9.92	9.95	9.94	10.08	10.00	7.09	6.87	9.97	6.65
3/12/87	9.89	9.90	9.93	9.92	10.06	9.97	7.07	6.87	9.95	6.66
3/13/87	9.90	9.91	9.94	9.93	10.04	9.98	7.06	6.87	9.93	6.66
3/14/87	9.88	9.89	9.92	9.91	10.02	9.96	7.04	6.87	9.92	6.66
3/15/87	9.84	9.84	9.87	9.87	9.99	9.91	7.04	6.87	9.89	6.65
3/16/87	9.81	9.81	9.85	9.84	9.98	9.89	7.04	6.87	9.87	6.64
3/17/87	9.78	9.78	9.81	9.80	9.95	9.85	7.07	6.87	9.85	6.62
3/18/87	9.74	9.74	9.76	9.75	9.91	9.80	7.15	6.86	9.81	6.59
3/19/87	9.67	9.68	9.71	9.71	9.90	9.75	7.17	6.85	9.78	6.57
3/20/87	9.67	9.67	9.71	9.71	9.90	9.75	7.17	6.89	9.75	6.55
3/21/87	9.67	9.67	9.70	9.70	9.91	9.74	7.19	6.87	9.73	6.53
3/22/87	9.66	9.67	9.69	9.68	9.90	9.72	7.17	6.87	9.82	6.51
3/23/87	9.68	9.67	9.69	9.67	9.90	9.71	7.17	6.86	9.80	6.51
3/24/87	9.70	9.68	9.70	9.67	9.90	9.73	7.20	6.87	9.80	6.54
3/25/87	9.71	9.70	9.72	9.68	9.92	9.75	7.20	6.87	9.79	6.59
3/26/87	9.71	9.70	9.72	9.68	9.90	9.75	7.20	6.87	9.77	6.60

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
3/27/87	9.72	9.72	9.75	9.71	9.94	9.78	7.22	6.89	9.75	6.65
3/28/87	9.69	9.70	9.73	9.70	9.92	9.76	7.21	6.88	9.77	6.66
3/29/87	9.70	9.71	9.75	9.72	9.91	9.78	7.21	6.89	9.79	6.66
3/30/87	9.70	9.71	9.74	9.73	9.91	9.77	7.22	6.88	9.82	6.67
3/31/87	9.70	9.73	9.77	9.78	9.92	9.81	7.27	6.97	9.79	6.76
4/ 1/87	9.74	9.74	9.79	9.79	9.95	9.84	7.26	6.98	9.79	6.78
4/ 2/87	9.73	9.70	9.75	9.76	9.91	9.79	7.25	6.98	9.77	6.76
4/ 3/87	9.70	9.66	9.71	9.71	9.91	9.75	7.26	6.96	9.76	6.75
4/ 4/87	9.68	9.65	9.69	9.69	9.89	9.74	7.26	6.98	9.74	6.73
4/ 5/87	9.66	9.62	9.66	9.66	9.85	9.72	7.25	6.97	9.71	6.71
4/ 6/87	9.63	9.59	9.62	9.62	9.82	9.67	7.27	6.98	9.69	6.69
4/ 7/87	9.60	9.55	9.57	9.57	9.80	9.63	7.33	6.93	9.65	6.67
4/ 8/87	9.56	9.51	9.53	9.53	9.78	9.58	7.40	6.75	9.63	6.67
4/ 9/87	9.50	9.47	9.49	9.50	9.74	9.55	7.40	6.80	9.58	6.65
4/10/87	9.45	9.43	9.46	9.46	9.73	9.51	7.41	6.88	9.45	6.64
4/11/87	9.42	9.40	9.43	9.43	9.74	9.48	7.40	6.87	9.45	6.63
4/12/87	9.40	9.37	9.40	9.40	9.71	9.45	7.40	6.85	9.47	6.62
4/13/87	9.38	9.35	9.38	9.38	9.69	9.42	7.39	6.80 E	9.48	6.60
4/14/87	9.38	9.35	9.35	9.35	9.67	9.40	7.36	6.76 E	9.44	6.59
4/15/87	9.38	9.34	9.34	9.34	9.67	9.40	7.36	6.74 E	9.43	6.60
4/16/87	9.36	9.33	9.36	9.36	9.68	9.40	7.37	6.71 E	9.42	6.60
4/17/87	9.34	9.32	9.35	9.34	9.67	9.38	7.37	6.71 E	9.41	6.60
4/18/87	9.32	9.29	9.32	9.30	9.64	9.35	7.37	6.71	9.39	6.59
4/19/87	9.30	9.27	9.30	9.28	9.62	9.33	7.35	6.71	9.37	6.58
4/20/87	9.30	9.27	9.30	9.28	9.55	9.34	7.32	6.64	9.35	6.57
4/21/87	9.30	9.26	9.30	9.29	9.47 E	9.34	7.27	6.64	9.33	6.55
4/22/87	9.28	9.25	9.28	9.27	9.42	9.31	7.24	6.63	9.32	6.53
4/23/87	9.27	9.23	9.26	9.25	9.39	9.29	7.21	6.63	9.31	6.52
4/24/87	9.24	9.20	9.23	9.23	9.36	9.25	7.24	6.62	9.30	6.50
4/25/87	9.20	9.17	9.19	9.16	9.33	9.22	7.26	6.61	9.26	6.47
4/26/87	9.17	9.14	9.16	9.14	9.28	9.19	7.23	6.60	9.23	6.44
4/27/87	9.16	9.12	9.14	9.13	9.23	9.17	7.22	6.51	9.19	6.42
4/28/87	9.13	9.09	9.10	9.08	9.20	9.13	7.23	6.50	9.18	6.40
4/29/87	9.09	9.05	9.05	9.04	9.16	9.08	7.23	6.48	9.15	6.38
4/30/87	9.05	9.01	9.02	9.00	9.12	9.03	7.20	6.43	9.13	6.36
5/ 1/87	9.00	8.97	8.97	8.95	9.04 P	8.99	7.17	6.26	9.09	6.33
5/ 2/87	8.97	8.94	8.94	8.90	8.98 P	8.95	7.15	6.20	9.08	6.29
5/ 3/87	8.94	8.90	8.90	8.86	8.93	8.91	7.13	6.17	9.06	6.26
5/ 4/87	8.91	8.87	8.86	8.84	8.88 P	8.87	7.13	6.13	9.05	6.24
5/ 5/87	8.87	8.83	8.82	8.80	8.82 P	8.83	7.10	6.07	8.96	6.22
5/ 6/87	8.83	8.79	8.79	8.74	8.79 P	8.79	7.08	6.20	8.91	6.19
5/ 7/87	8.79	8.76	8.75	8.71	8.75	8.75	7.07	5.97	8.89	6.16
5/ 8/87	8.76	8.74	8.74	8.71	8.87	8.76	7.09	6.41	8.81	6.14
5/ 9/87	8.76	8.75	8.77	8.74	8.96	8.79	7.08	6.59	8.79	6.10
5/10/87	8.77	8.77	8.80	8.78	9.01	8.83	7.10	6.62	8.83	6.08
5/11/87	8.81	8.82	8.86	8.84	9.01	8.89	7.11	6.67	8.94	6.11
5/12/87	8.84	8.84	8.86	8.84	9.03	8.89	7.09	6.69	8.90	6.11
5/13/87	8.85	8.84	8.87	8.84	9.04 P	8.89	7.08	6.70	8.87	6.15

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity, from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
5/14/87	8.86	8.84	8.87	8.85	9.04	8.90	7.08	6.71	8.88	6.15
5/15/87	8.87	8.85	8.88	8.86	9.04 P	8.91	7.08	6.70	8.90	6.15
5/16/87	8.87	8.86	8.88	8.86	9.02 P	8.91	7.06	6.69	8.89	6.15
5/17/87	8.87	8.84	8.87	8.84	8.99 P	8.89	7.04	6.67	8.87	6.15
5/18/87	8.87	8.85	8.86	8.84	9.00 P	8.89	7.04	6.66	8.85	6.15
5/19/87	8.89	8.86	8.86	8.84	9.00 P	8.89	7.05	6.64	8.84	6.15
5/20/87	8.88	8.85	8.86	8.83	8.96	8.88	7.06	6.64	8.84	6.13
5/21/87	8.86	8.83	8.84	8.82	8.93	8.87	7.06	6.61	8.83	6.11
5/22/87	8.84	8.81	8.82	8.80	8.93	8.85	7.05	6.59	8.81	6.09
5/23/87	8.82	8.79	8.80	8.77	8.90	8.82	7.03	6.57	8.80	6.06
5/24/87	8.81	8.77	8.78	8.75	8.86 P	8.80	7.03	6.56	8.78	6.05
5/25/87	8.79	8.75	8.76	8.73	8.83	8.79	7.03	6.53	8.76	6.01
5/26/87	8.77	8.72	8.74	8.71	8.81	8.76	7.02	6.51	8.74	5.96
5/27/87	8.74	8.69	8.71	8.68	8.78	8.73	7.04	6.49	8.72	5.92
5/28/87	8.71	8.67	8.68	8.65	8.75	8.70	7.03	6.48	8.70	5.86
5/29/87	8.69	8.65	8.66	8.64	8.75	8.69	7.03	6.47	8.68	5.81
5/30/87	8.67	8.63	8.65	8.63	8.71	8.67	7.03	6.47	8.66	5.76
5/31/87	8.65	8.61	8.62	8.59	8.68	8.64	7.01	6.44	8.65	5.68
6/ 1/87	8.62	8.59	8.61	8.58	8.69 P	8.63	7.05	6.44	8.65	5.61
6/ 2/87	8.61	8.60	8.62	8.60	8.67	8.65	7.03	6.55	8.69	5.59
6/ 3/87	8.61	8.58	8.60	8.57	8.63	8.62	6.98	6.66	8.67	5.61
6/ 4/87	8.58	8.55	8.56	8.52	8.58	8.57	6.96	6.65	8.65	5.59
6/ 5/87	8.54	8.51	8.50	8.48	8.53	8.53	6.95	6.64	8.63	5.57
6/ 6/87	8.51	8.47	8.46	8.43	8.47	8.49	6.94	6.63	8.60	5.55
6/ 7/87	8.48	8.44	8.43	8.40	8.42	8.45	6.93	6.65	8.57	5.56
6/ 8/87	8.46	8.41	8.40	8.38	8.38	8.43	6.92	6.66	8.56	5.56
6/ 9/87	8.41	8.37	8.35	8.32	8.33	8.38	6.90	6.63	8.57	5.54
6/10/87	8.39	8.35	8.33	8.29	8.32	8.35	6.84	6.64	8.58	5.54
6/11/87	8.35	8.30	8.28	8.24	8.27	8.30	6.83	6.49	8.54	5.51
6/12/87	8.27	8.23	8.20	8.16	8.16	8.22	6.81	6.35	8.51	5.50
6/13/87	8.19	8.14	8.11	8.07	8.08	8.13	6.80	6.32	8.48	5.47
6/14/87	8.10	8.05	8.02	7.98	8.01	8.04	6.77	6.29	8.45	5.46
6/15/87	8.01	7.97	7.93	7.90	7.94	7.96	6.77	5.93	8.43	5.46
6/16/87	7.93	7.90	7.86	7.82	7.85	7.88	6.75	5.63	8.41	5.48
6/17/87	7.85	7.81	7.77	7.73	7.76	7.79	6.67	5.61	8.39	5.46
6/18/87	7.71	7.68	7.64	7.60	7.62	7.68	6.64	5.56	8.37	5.44
6/19/87	7.60	7.56	7.53	7.48	7.52	7.56	6.62	5.52	8.35	5.40
6/20/87	7.49	7.46	7.43	7.39	7.43	7.46	6.60	5.48	8.33	5.37
6/21/87	7.38	7.35	7.33	7.29	7.34	7.37	6.58	5.43	8.31	5.33
6/22/87	7.28	7.25	7.24	7.21	7.30	7.28	6.57	5.40	8.29	5.35
6/23/87	7.29	7.32	7.30	7.27	7.36	7.35	6.56	5.29	8.34	5.42
6/24/87	7.36	7.36	7.35	7.33	7.43	7.40	6.53	5.22	8.38	5.60
6/25/87	7.40	7.39	7.39	7.37	7.50	7.44	6.51	5.47	8.36	5.44
6/26/87	7.74	7.73	7.73	7.71	7.86	7.78	6.54	6.19	8.33	5.52
6/27/87	7.91	7.90	7.91	7.89	8.06	7.97	6.58	6.32	8.32	5.68
6/28/87	8.02	7.99	8.00	7.97	8.10	8.05	6.61	6.37	8.33	5.82
6/29/87	8.12	8.08	8.09	8.07	8.22	8.14	6.64	6.47	8.32	5.90
6/30/87	8.20	8.16	8.17	8.13	8.28	8.21	6.64	6.52	8.33	5.91

Table D.9 Average Daily Upstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335	3A-28	3B-SE
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD	COE	COE
7/ 1/87	8.19	8.15		M 8.13	8.22	8.13	6.62	6.50	8.34	5.89
7/ 2/87	8.24	8.20		M 8.17	8.32 P	8.19	6.61	6.49	8.32	5.85
7/ 3/87	8.31	8.26		M 8.20	8.30 P	8.21	6.60	6.47	8.31	5.78
7/ 4/87	8.28	8.23		M 8.19	8.30 P	8.20	6.59	6.45	8.35	5.66
7/ 5/87	8.27	8.22		M 8.19	8.29 P	8.19	6.57	6.43	8.34	5.53
7/ 6/87	8.26	8.22		M 8.19	8.33 P	8.20	6.55	6.41	8.33	5.49
7/ 7/87	8.33	8.29		M 8.22	8.32 P	8.23	6.55	6.39	8.31	5.47
7/ 8/87	8.41	8.35		M 8.27	8.35 P	8.27	6.55	6.38	8.32	5.43
7/ 9/87	8.37	8.31		M 8.25	8.34 P	8.26	6.54	6.36	8.52	5.36
7/10/87	8.34	8.29		M 8.23	8.31 P	8.24	6.51	6.33	8.53	5.29
7/11/87	8.31	8.26		M 8.22	8.31 P	8.22	6.50	6.31	8.50	5.24

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
7/11/85	7.75	7.76	7.77	7.84	6.92	6.18	5.21	5.17
7/12/85	7.80	7.79	7.81	7.86	6.95	6.19	5.14	5.10
7/13/85	7.82	7.81	7.83	7.88	6.99	6.22	5.07	5.02
7/14/85	7.83	7.83	7.85	7.89	7.00	6.22	5.08	5.03
7/15/85	7.84	7.84	7.85	7.91	7.03	6.23	5.03	4.99
7/16/85	7.87	7.86	7.87	7.92	7.09	6.31	4.98	4.94
7/17/85	7.95	7.91	7.90	7.94	7.11	6.48	5.19	5.16
7/18/85	8.01	7.93	7.93	7.97	7.12	6.51	5.07	5.03
7/19/85	7.99	7.94	7.94	7.99	7.16	6.54	5.00	4.96
7/20/85	8.04	7.99	7.98	8.02	7.24	6.58	5.04	5.00
7/21/85	8.04	7.99	7.98	8.03	7.24	6.59	4.76	4.73
7/22/85	8.01	7.97	7.97	8.03	7.25	6.59	4.76	4.73
7/23/85	8.16	8.06	8.03	7.98	7.39	6.70	5.79	5.75
7/24/85	8.24	8.07	8.05	7.87	7.55	6.75	6.02	5.99
7/25/85	8.24	8.06	8.05	7.86	7.56	6.74	4.98	4.95
7/26/85	8.26	8.06	8.05	7.82	7.57	6.73	4.95	4.92
7/27/85	8.27	8.07	8.07	7.87	7.59	6.72	4.85	4.81
7/28/85	8.28	8.09	8.08	7.92	7.58	6.72	4.83	4.80
7/29/85	8.29	8.10	8.09	7.97	7.58	6.71	4.83	4.79
7/30/85	8.32	8.25	8.14	8.00	7.58	6.78	4.88	4.85
7/31/85	8.36	8.40	8.23	8.06	7.58	6.88	4.92	4.88
8/ 1/85	8.37	8.41	8.24	8.06	7.57	6.89	5.16	5.12
8/ 2/85	8.38	8.42	8.25	8.07	7.58	6.90	5.08	5.04
8/ 3/85	8.40	8.46	8.26	8.08	7.58	6.91	4.92	4.88
8/ 4/85	8.41	8.48	8.28	8.09	7.59	6.91	4.89	4.85
8/ 5/85	8.45	8.51	8.31	8.11	7.63	6.91	4.82	4.79
8/ 6/85	8.65	8.63	8.49	8.25	7.63	7.09	5.11	5.07
8/ 7/85	8.82	8.77	8.66	8.39	7.62	7.16	5.28	5.25
8/ 8/85	8.83	8.80	8.69	8.40	7.62	7.19	5.47	5.45
8/ 9/85	8.84	8.81	8.70	8.41	7.80	7.25	5.30	5.27
8/10/85	8.84	8.82	8.71	8.41	8.20	7.26	5.28	5.25
8/11/85	8.86	8.83	8.72	8.42	8.27	7.27	5.35	5.31
8/12/85	8.87	8.83	8.73	8.43	8.26	7.28	4.99	4.99
8/13/85	8.90	8.84	8.73	8.43	8.28	7.31	4.95	4.95
8/14/85	8.92	8.84	8.74	8.43	8.30	7.33	4.90	4.90
8/15/85	8.93	8.84	8.74	8.44	8.31	7.33	5.02	5.02
8/16/85	8.93	8.84	8.74	8.44	8.32	7.33	5.27	5.27
8/17/85	8.93	8.85	8.75	8.44	8.34	7.33	5.21	5.21
8/18/85	8.94	8.86	8.76	8.45	8.35	7.33	5.26	5.25
8/19/85	8.94	8.86	8.76	8.45	8.10	7.34	5.16	5.16
8/20/85	8.95	8.85	8.79	8.43	7.86	7.37	5.27	5.27
8/21/85	8.99	8.87	8.82	8.44	7.83	7.41	5.28	5.29
8/22/85	9.01	8.88	8.82	8.44	7.83	7.42	5.25	5.25
8/23/85	9.00	8.88	8.82	8.44	7.83	7.43	5.27	5.27
8/24/85	9.00	8.87	8.82	8.44	7.84	7.43	5.66	5.65
8/25/85	8.99	8.86	8.81	8.43	7.85	7.42	5.79	5.77
8/26/85	8.99	8.86	8.81	8.42	7.84	7.43	5.61	5.59
8/27/85	9.00	8.88	8.82	8.43	7.84	7.44	5.47	5.45

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
8/28/85	9.01	8.88	8.82	8.43	7.83	7.46	5.54	5.52
8/29/85	9.02	8.89	8.83	8.44	7.92	7.50	5.54	5.54
8/30/85	9.01	8.89	8.84	8.44	7.93	7.48	5.47	5.45
8/31/85	9.00	8.88	8.83	8.44	7.93	7.47	5.36	5.34
9/ 1/85	9.00	8.87	8.82	8.43	7.94	7.46	4.72	4.70
9/ 2/85	9.01	8.88	8.82	8.43	7.94	7.46	4.80	4.79
9/ 3/85	9.02	8.89	8.83	8.44	7.89	7.46	5.61	5.58
9/ 4/85	9.02	8.89	8.83	8.44	7.89	7.45	5.60	5.58
9/ 5/85	9.02	8.90	8.84	8.45	7.97	7.47	5.69	5.66
9/ 6/85	9.03	8.90	8.84	8.46	8.01	7.48	5.71	5.69
9/ 7/85	9.03	8.90	8.83	8.46	8.00	7.48	5.76	5.73
9/ 8/85	9.03	8.92	8.84	8.46	7.97	7.48	5.80	5.77
9/ 9/85	9.04	8.92	8.85	8.47	7.97	7.50	5.52	5.49
9/10/85	9.03	8.90	8.74	8.47	7.96	7.49	5.38	5.36
9/11/85	9.03	8.87	8.58	8.46	7.96	7.49	5.05	5.03
9/12/85	9.03	8.87	8.59	8.46	7.96	7.49	5.31	5.27
9/13/85	9.02	8.87	8.58	8.46	7.97	7.51	4.71	4.68
9/14/85	9.03	8.88	8.58	8.47	7.97	7.52	4.54	4.50
9/15/85	9.04	8.88	8.58	8.47	7.98	7.53	4.45	4.41
9/16/85	9.04	8.88	8.58	8.47	7.98	7.52	4.59	4.55
9/17/85	8.86	8.71	8.56	8.43	7.98	7.53	5.20	5.16
9/18/85	8.69	8.54	8.52	8.40	8.08	7.38	5.93	5.89
9/19/85	8.93	8.84	8.66	8.55	8.23	7.21	6.19	6.15
9/20/85	9.18	9.14	8.81	8.69	8.33	7.19	6.27	6.23
9/21/85	9.18	9.15	8.80	8.69	8.33	7.15	5.91	5.87
9/22/85	9.18	9.14	8.80	8.69	8.33	7.12	5.55	5.51
9/23/85	9.18	9.14	8.80	8.69	8.33	7.08	5.38	5.34
9/24/85	9.28	9.24	8.88	8.76	8.33	7.04	5.06	5.03
9/25/85	9.39	9.34	8.98	8.84	8.33	7.00	5.06	5.03
9/26/85	9.38	9.34	8.98	8.84	8.33	6.96	4.81	4.78
9/27/85	9.37	9.33	8.98	8.84	8.33	6.94	4.80	4.77
9/28/85	9.37	9.34	8.97	8.84	8.33	6.92	4.98	4.94
9/29/85	9.37	9.33	8.97	8.84	8.33	6.92	5.00	4.95
9/30/85	9.36	9.33	8.97	8.83	8.33	6.90	5.03	5.00
10/ 1/85	9.26	9.26	8.90	8.75	8.70	7.14	4.91	4.87
10/ 2/85	9.13	9.15	8.80	8.64	9.17	7.40	4.92	4.88
10/ 3/85	9.13	9.16	8.82	8.64	9.29	7.47	4.87	4.85
10/ 4/85	9.15	9.16	8.81	8.64	9.34	7.53	4.86	4.83
10/ 5/85	9.14	9.15	8.81	8.64	9.33	7.54	4.93	4.91
10/ 6/85	9.15	9.16	8.82	8.65	9.33	7.48	4.96	4.95
10/ 7/85	9.15	9.16	8.82	8.65	9.33	7.33	5.14	5.12
10/ 8/85	9.16	9.17	8.83	8.66	9.33	7.25	5.08	5.05
10/ 9/85	9.16	9.17	8.83	8.62	9.33	7.45	4.89	4.87
10/10/85	9.15	9.16	8.83	8.58	9.33	7.45	4.81	4.78
10/11/85	9.14	9.16	8.83	8.58	9.34	7.45	4.87	4.84
10/12/85	9.14	9.16	8.82	8.57	9.34	7.46	4.97	4.94
10/13/85	9.14	9.14	8.82	8.57	9.33	7.47	4.83	4.80
10/14/85	9.13	9.13	8.82	8.57	9.33	7.47	5.04	5.01

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
10/15/85	9.18	9.18	8.82	8.61	9.33	7.47	5.05	5.02
10/16/85	9.27	9.27	8.84	8.66	9.33	7.47	5.07	5.04
10/17/85	9.27	9.27	8.83	8.66	9.33	7.48	5.17	5.13
10/18/85	9.28	9.28	8.84	8.66	9.32	7.47	5.32	5.28
10/19/85	9.29	9.29	8.85	8.67	9.33	7.49	5.38	5.34
10/20/85	9.30	9.31	8.86	8.68	9.33	7.50	5.49	5.46
10/21/85	9.30	9.31	8.86	8.68	9.33	7.50	5.22	5.18
10/22/85	9.19	9.23	8.82	8.63	9.33	7.49	5.23	5.19
10/23/85	9.11	9.08	8.78	8.56	9.33	7.49	5.23	5.19
10/24/85	9.11	9.08	8.78	8.56	9.33 E	7.50	4.99	4.95
10/25/85	9.11	9.08	8.78	8.56	9.33 E	7.49	4.93	4.89
10/26/85	9.11	9.08	8.78	8.56	9.34 E	7.49	4.88	4.84
10/27/85	9.15	9.12	8.82	8.60	9.35 E	7.53	4.88	4.83
10/28/85	9.15	9.12	8.82	8.60	9.35 E	7.54	4.90	4.86
10/29/85	9.08	9.02	8.75	8.55	9.35 E	7.53	4.98	4.94
10/30/85	9.03	8.90	8.69	8.51	8.95 E	7.52	5.38	5.34
10/31/85	9.02	8.89	8.68	8.49	8.36	7.51	5.46	5.41
11/ 1/85	9.02	8.90	8.68	8.49	8.34	7.50	5.46	5.42
11/ 2/85	9.03	8.91	8.68	8.49	8.31	7.50	5.46	5.41
11/ 3/85	9.03	8.90	8.69	8.48	8.29	7.50	5.46	5.41
11/ 4/85	9.03	8.95	8.70	8.50	8.26	7.51	5.47	5.41
11/ 5/85	9.01	8.95	8.68	8.47	8.25	7.50	5.48	5.41
11/ 6/85	8.97	8.91	8.67	8.41	8.24	7.50	5.47	5.41
11/ 7/85	8.97	8.90	8.67	8.41	8.22	7.49	5.44	5.39
11/ 8/85	8.97	8.90	8.67	8.41	8.20	7.49	5.43	5.37
11/ 9/85	8.96	8.90	8.66	8.41	8.18	7.50	5.42	5.37
11/10/85	8.96	8.90	8.66	8.41	8.17	7.49	5.41	5.36
11/11/85	8.96	8.90	8.66	8.40	8.15	7.49	5.44	5.39
11/12/85	8.91	8.85	8.63	8.38	8.15	7.50	5.70	5.65
11/13/85	8.83	8.74	8.55	8.32	8.15	7.50	5.85	5.81
11/14/85	8.83	8.74	8.54	8.30	8.15	7.50	5.76	5.72
11/15/85	8.82	8.73	8.54	8.28	8.14	7.50	5.64	5.59
11/16/85	8.82	8.73	8.53	8.27	8.12	7.50	5.58	5.54
11/17/85	8.82	8.72	8.53	8.27	8.11	7.49	5.57	5.52
11/18/85	8.82	8.72	8.53	8.27	8.10	7.41	5.50	5.44
11/19/85	8.75	8.65	8.48	8.20	8.08	7.22	5.48	5.42
11/20/85	8.66	8.57	8.42	8.13	8.08	7.25	5.53	5.50
11/21/85	8.64	8.54	8.40	8.12	8.07	7.33	5.31	5.28
11/22/85	8.63	8.54	8.39	8.11	8.04	7.33	5.26	5.22
11/23/85	8.63	8.54	8.39	8.11	8.04	7.33	5.26	5.22
11/24/85	8.63	8.53	8.39	8.11	8.04	7.34	5.22	5.18
11/25/85	8.62	8.53	8.38	8.11	8.04	7.33	5.19	5.14
11/26/85	8.59	8.49	8.34	8.07	8.03	7.28	5.25	5.20
11/27/85	8.55	8.44	8.28	8.03	8.02	7.21	5.32	5.27
11/28/85	8.55	8.43	8.27	8.02	8.02	7.19	5.51	5.46
11/29/85	8.55	8.43	8.27	8.02	8.01	7.18	5.54	5.50
11/30/85	8.54	8.42	8.26	8.02	7.99	7.17	5.56	5.52
12/ 1/85	8.54	8.42	8.26	8.02	7.98	7.16	5.56	5.53

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
12/ 2/85	8.54	8.42	8.27	8.02	7.97	7.15	5.56	5.53
12/ 3/85	8.52	8.40	8.27	8.01	7.97	7.13	5.54	5.50
12/ 4/85	8.48	8.36	8.25	8.01	7.95	7.11	5.55	5.52
12/ 5/85	8.48	8.37	8.25	8.01	7.94	7.11	5.50	5.47
12/ 6/85	8.48	8.36	8.25	8.01	7.95	7.10	5.35	5.31
12/ 7/85	8.47	8.35	8.24	8.01	7.95	7.10	5.19	5.16
12/ 8/85	8.47	8.34	8.24	8.00	7.95	7.09	5.11	5.07
12/ 9/85	8.46	8.34	8.24	8.00	7.95	7.09	5.17	5.13
12/10/85	8.46	8.31	8.23	7.96	7.95	7.07	5.34	5.30
12/11/85	8.45	8.27	8.20	7.91	7.94	7.04	5.38	5.33
12/12/85	8.45	8.27	8.20	7.91	7.93	7.02	5.40	5.35
12/13/85	8.45	8.27	8.20	7.90	7.90	7.01	5.40	5.36
12/14/85	8.45	8.27	8.20	7.89	7.86	7.00	5.39	5.35
12/15/85	8.45	8.26	8.20	7.89	7.86	7.00	5.40	5.34
12/16/85	8.44	8.26	8.20	7.89	7.85	6.99	5.39	5.35
12/17/85	8.41	8.25	8.18	7.87	7.85	6.99	5.39	5.35
12/18/85	8.37	8.23	8.14	7.86	7.84	6.98	5.38	5.33
12/19/85	8.36	8.22	8.13	7.85	7.83	6.97	5.35	5.30
12/20/85	8.36	8.22	8.13	7.85	7.83	6.96	5.33	5.28
12/21/85	8.36	8.20	8.12	7.84	7.82	6.95	5.32	5.27
12/22/85	8.35	8.20	8.11	7.82	7.79	6.95	5.29	5.24
12/23/85	8.35	8.19	8.11	7.81	7.80	6.94	5.28	5.23
12/24/85	8.35	8.19	8.11	7.77	7.80	6.93	5.29	5.24
12/25/85	8.33	8.18	8.10	7.72	7.79	6.90	5.32	5.27
12/26/85	8.34	8.17	8.09	7.70	7.78	6.89	5.29	5.25
12/27/85	8.33	8.17	8.08	7.70	7.78	6.89	5.27	5.22
12/28/85	8.33	8.17	8.09	7.71	7.77	6.88	5.29	5.24
12/29/85	8.33	8.17	8.09	7.70	7.77	6.88	5.34	5.30
12/30/85	8.33	8.16	8.07	7.69	7.77	6.88	5.32	5.28
12/31/85	8.27	8.16	8.07	7.69	7.77	6.88	5.32	5.27
1/ 1/86	8.19	8.14	8.06	7.69	7.77	6.87	5.30	5.25
1/ 2/86	8.18	8.12	8.05	7.69	7.77	6.86	5.27	5.22
1/ 3/86	8.17	8.12	8.05	7.68	7.75	6.86	5.24	5.20
1/ 4/86	8.16	8.12	8.04	7.68	7.75	6.86	5.23	5.19
1/ 5/86	8.16	8.11	8.04	7.68	7.75	6.85	5.20	5.16
1/ 6/86	8.15	8.11	8.03	7.68	7.75	6.86	5.19	5.14
1/ 7/86	8.17	8.14	8.05	7.70	7.74	6.86	5.18	5.14
1/ 8/86	8.18	8.15	8.06	7.69	7.73	6.87	5.21	5.16
1/ 9/86	8.20	8.17	8.07	7.70	7.78	6.92	5.45	5.39
1/10/86	8.22	8.20	8.09	7.71	7.82	6.92	5.32	5.29
1/11/86	8.21	8.19	8.08	7.70	7.83	6.92	5.29	5.24
1/12/86	8.19	8.17	8.06	7.69	7.82	6.91	5.49	5.44
1/13/86	8.19	8.17	8.06	7.69	7.83	6.89	5.38	5.35
1/14/86	8.18	8.16	8.05	7.75	7.82	6.90	5.32	5.30
1/15/86	8.18	8.16	8.06	7.84	7.82	6.92	5.26	5.24
1/16/86	8.18	8.16	8.06	7.84	7.81	6.93	5.30	5.27
1/17/86	8.18	8.16	8.06	7.84	7.80	6.92	5.43	5.39
1/18/86	8.17	8.16	8.05	7.84	7.80	6.91	5.45	5.42

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
1/19/86	8.17	8.16	8.05	7.83	7.78	6.90	5.46	5.42
1/20/86	8.17	8.15	8.05	7.83	7.77	6.89	5.43	5.38
1/21/86	8.22	8.16	8.07	7.83	7.77	6.91	5.41	5.36
1/22/86	8.31	8.20	8.13	7.84	7.77	6.93	5.39	5.34
1/23/86	8.32	8.20	8.13	7.84	7.77	6.93	5.37	5.32
1/24/86	8.32	8.20	8.13	7.84	7.78	6.93	5.34	5.30
1/25/86	8.32	8.20	8.13	7.84	7.77	6.93	5.32	5.31
1/26/86	8.32	8.20	8.13	7.84	7.75	6.91	5.32	5.30
1/27/86	8.32	8.20	8.14	7.84	7.73	6.91	5.29	5.26
1/28/86	8.33	8.20	8.12	7.84	7.73	6.91	5.24	5.20
1/29/86	8.32	8.19	8.10	7.85	7.73	6.90	5.20	5.17
1/30/86	8.31	8.17	8.09	7.84	7.73	6.90	5.17	5.14
1/31/86	8.31	8.16	8.09	7.84	7.74	6.90	5.15	5.12
2/ 1/86	8.31	8.16	8.09	7.84	7.74	6.89	5.13	5.10
2/ 2/86	8.32	8.16	8.08	7.84	7.73	6.89	5.12	5.08
2/ 3/86	8.32	8.17	8.08	7.83	7.67	6.89	5.10	5.07
2/ 4/86	8.28	8.17	8.08	7.83	7.61	6.87	5.09	5.05
2/ 5/86	8.19	8.15	8.07	7.83	7.62	6.85	5.05	5.04
2/ 6/86	8.17	8.15	8.07	7.83	7.61	6.84	5.02	5.01
2/ 7/86	8.17	8.14	8.07	7.83	7.60	6.84	5.02	5.00
2/ 8/86	8.17	8.14	8.07	7.83	7.61	6.83	5.11	5.10
2/ 9/86	8.16	8.14	8.06	7.83	7.60	6.83	5.07	5.05
2/10/86	8.16	8.14	8.06	7.83	7.60	6.82	5.06	5.03
2/11/86	8.15	8.11	8.05	7.82	7.60	6.81	5.02	5.00
2/12/86	8.15	8.07	8.03	7.82	7.59	6.79	4.97	4.94
2/13/86	8.14	8.07	8.03	7.82	7.58	6.79	4.92	4.89
2/14/86	8.14	8.06	8.03	7.82	7.56	6.79	4.90	4.88
2/15/86	8.13	8.05	8.02	7.82	7.56	6.77	4.87	4.85
2/16/86	8.13	8.05	8.02	7.82	7.57	6.78	4.84	4.81
2/17/86	8.12	8.03	8.01	7.82	7.57	6.77	4.81	4.79
2/18/86	8.15	8.06	8.03	7.85	7.57	6.81	5.04	5.01
2/19/86	8.14	8.04	8.01	7.77	7.57	6.81	5.23	5.21
2/20/86	8.13	8.03	8.00	7.68	7.57	6.78	5.20	5.18
2/21/86	8.12	8.02	7.99	7.67	7.56	6.77	5.15	5.13
2/22/86	8.12	8.02	7.99	7.67	7.56	6.76	5.12	5.11
2/23/86	8.12	8.02	7.99	7.67	7.56	6.75	5.08	5.07
2/24/86	8.11	8.01	7.99	7.66	7.55	6.73	5.03	5.01
2/25/86	8.10	8.01	7.98	7.66	7.54	6.72	4.97	4.94
2/26/86	8.10	8.00	7.98	7.65	7.54	6.72	4.92	4.89
2/27/86	8.10	8.00	7.98	7.65	7.54	6.72	4.85	4.82
2/28/86	8.10	7.99	7.97	7.65	7.54	6.71	4.73	4.71
3/ 1/86	8.10	7.99	7.98	7.65	7.52	6.67	4.64	4.62
3/ 2/86	8.10	7.99	7.97	7.64	7.50	6.70	4.59	4.56
3/ 3/86	8.10	8.00	7.97	7.65	7.48	6.71	4.65	4.63
3/ 4/86	8.09	8.00	7.97	7.65	7.54	6.71	4.79	4.78
3/ 5/86	8.09	7.99	7.97	7.65	7.60	6.71	4.87	4.86
3/ 6/86	8.09	7.99	7.97	7.65	7.59	6.69	4.87	4.86
3/ 7/86	8.09	7.99	7.96	7.64	7.59	6.70	4.86	4.85

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
3/ 8/86	8.08	7.98	7.96	7.64	7.59	6.71	4.86	4.86
3/ 9/86	8.08	7.98	7.96	7.64	7.58	6.71	4.88	4.87
3/10/86	8.10	8.04	8.02	7.71	7.59	6.79	5.10	5.07
3/11/86	8.15	8.03	8.02	7.70	7.59	6.83	5.40	5.38
3/12/86	8.12	7.99	8.00	7.66	7.59	6.79	5.33	5.30
3/13/86	8.12	8.00	7.98	7.67	7.60	6.79	5.40	5.37
3/14/86	8.11	7.99	7.94	7.66	7.59	6.78	5.39	5.36
3/15/86	8.10	7.98	7.93	7.64	7.58	6.76	5.35	5.32
3/16/86	8.10	7.99	7.94	7.65	7.59	6.77	5.31	5.29
3/17/86	8.10	7.97	7.93	7.64	7.59	6.77	5.28	5.26
3/18/86	8.11	8.06	7.97	7.72	7.59	6.80	5.26	5.25
3/19/86	8.14	8.13	8.04	7.84	8.05	6.80	5.24	5.22
3/20/86	8.14	8.13	8.04	7.84	8.37	6.79	5.20	5.18
3/21/86	8.16	8.16	8.08	7.88	8.40	6.83	5.23	5.21
3/22/86	8.15	8.15	8.06	7.86	8.42	6.81	5.26	5.24
3/23/86	8.16	8.15	8.06	7.86	8.44	6.82	5.22	5.18
3/24/86	8.16	8.15	8.06	7.86	8.46	6.82	5.19	5.15
3/25/86	8.24	8.19	8.08	7.89	8.64	6.85	5.16	5.13
3/26/86	8.37	8.27	8.15	7.96	8.82	6.93	5.52	5.48
3/27/86	8.37	8.27	8.14	7.96	8.87	6.95	5.66	5.61
3/28/86	8.38	8.27	8.14	7.95	8.90	6.96	5.48	5.44
3/29/86	8.38	8.28	8.15	7.95	8.91	6.96	5.22	5.18
3/30/86	8.40	8.28	8.15	7.95	8.94	6.97	5.10	5.06
3/31/86	8.39	8.28	8.15	7.95	8.96	6.97	5.07	5.03
4/ 1/86	8.53	8.40	8.24	8.05	8.95	7.07	5.01	4.97
4/ 2/86	8.61	8.49	8.33	8.15	8.94	7.16	4.96	4.92
4/ 3/86	8.61	8.49	8.34	8.15	8.94	7.18	4.49	4.47
4/ 4/86	8.61	8.49	8.34	8.15	8.94	7.18	4.78	4.76
4/ 5/86	8.61	8.49	8.34	8.15	8.94	7.19	5.25	5.23
4/ 6/86	8.61	8.49	8.34	8.15	8.94	7.19	5.33	5.30
4/ 7/86	8.61	8.49	8.34	8.16	8.94	7.17	5.37	5.35
4/ 8/86	8.61	8.49	8.34	8.16	8.94	7.19	5.42	5.39
4/ 9/86	8.60	8.30	8.34	8.17	8.94	7.20	5.41	5.39
4/10/86	8.60	8.08	8.34	8.18	8.93	7.22	5.39	5.35
4/11/86	8.60	8.08	8.34	8.18	8.92	7.22	5.37	5.34
4/12/86	8.60	8.08	8.34	8.18	8.90	7.22	5.36	5.34
4/13/86	8.61	8.09	8.36	8.19	8.93	7.24	5.46	5.43
4/14/86	8.61	8.09	8.35	8.19	8.93	7.25	5.51	5.46
4/15/86	8.53	8.04	8.29	8.12	8.92	7.18	5.51	5.46
4/16/86	8.46	8.23	8.23	8.03	8.91	7.09	5.49	5.44
4/17/86	8.46	8.37	8.23	8.03	8.58	7.07	5.46	5.41
4/18/86	8.46	8.37	8.23	8.03	8.20	7.07	5.43	5.37
4/19/86	8.46	8.37	8.22	8.03	8.14	7.08	5.39	5.34
4/20/86	8.46	8.37	8.22	8.03	8.08	7.07	5.37	5.32
4/21/86	8.45	8.37	8.22	8.02	8.02	7.05	5.34	5.30
4/22/86	8.45	8.34	8.22	8.00	7.97	7.02	5.28	5.25
4/23/86	8.45	8.32	8.21	7.97	7.92	7.00	5.24	5.19
4/24/86	8.45	8.32	8.20	7.97	7.88	7.00	5.20	5.16

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
4/25/86	8.44	8.32	8.20	7.97	7.84	6.99	5.21	5.18
4/26/86	8.44	8.31	8.20	7.97	7.80	6.98	5.29	5.26
4/27/86	8.44	8.31	8.20	7.97	7.78	6.97	5.30	5.27
4/28/86	8.44	8.31	8.20	7.97	7.74	6.96	5.25	5.21
4/29/86	8.43	8.29	8.18	7.97	7.70	6.94	5.20	5.17
4/30/86	8.43	8.27	8.15	7.97	7.67	6.92	5.22	5.19
5/ 1/86	8.43	8.26	8.15	7.97	7.65	6.92	5.18	5.15
5/ 2/86	8.43	8.25	8.14	7.95	7.62	6.90	5.14	5.12
5/ 3/86	8.42	8.24	8.14	7.93	7.59	6.89	5.12	5.09
5/ 4/86	8.42	8.24	8.14	7.93	7.56	6.90	5.16	5.13
5/ 5/86	8.42	8.23	8.14	7.93	7.54	6.90	5.20	5.17
5/ 6/86	8.39	8.20	8.11	7.90	7.52	6.86	5.17	5.14
5/ 7/86	8.33	8.14	8.06	7.84	7.50	6.83	5.12	5.09
5/ 8/86	8.33	8.13	8.06	7.83	7.47	6.81	5.15	5.11
5/ 9/86	8.33	8.12	8.05	7.82	7.44	6.79	5.21	5.18
5/10/86	8.33	8.12	8.04	7.81	7.42	6.81	5.25	5.22
5/11/86	8.33	8.12	8.04	7.81	7.40	6.80	5.21	5.18
5/12/86	8.32	8.10	8.04	7.81	7.39	6.79	5.16	5.15
5/13/86	8.28	8.08	8.03	7.81	7.38	6.77	5.13	5.13
5/14/86	8.16	8.03	8.00	7.81	7.37	6.75	5.10	5.09
5/15/86	8.13	8.01	7.99	7.80	7.36	6.75	5.05	5.04
5/16/86	8.12	8.00	7.98	7.80	7.34	6.74	5.03	5.01
5/17/86	8.11	7.98	7.97	7.79	7.33	6.72	5.00	4.99
5/18/86	8.09	7.96	7.95	7.78	7.33	6.71	4.97	4.97
5/19/86	8.08	7.95	7.95	7.78	7.31	6.69	5.01	5.01
5/20/86	8.08	7.93	7.92	7.72	7.30	6.67	5.01	5.01
5/21/86	8.06	7.87	7.85	7.61	7.32	6.66	5.09	5.09
5/22/86	8.08	7.90	7.89	7.65	7.32	6.67	5.40	5.39
5/23/86	8.09	7.89	7.87	7.62	7.32	6.67	5.34	5.33
5/24/86	8.07	7.86	7.84	7.61	7.31	6.68	5.14	5.13
5/25/86	8.05	7.84	7.82	7.60	7.30	6.66	5.03	5.01
5/26/86	8.04	7.82	7.81	7.60	7.29	6.65	4.96	4.94
5/27/86	8.01	7.81	7.79	7.60	7.28	6.66	4.94	4.92
5/28/86	8.00	7.94	7.87	7.61	7.31 E	6.68	4.97	4.96
5/29/86	8.00	8.03	7.96	7.64	7.32	6.69	4.91	4.89
5/30/86	8.00	8.03	7.97	7.64	7.31	6.68	4.95	4.95
5/31/86	8.00	8.04	7.97	7.65	7.30	6.68	4.96	4.97
6/ 1/86	8.01	8.04	7.98	7.66	7.30	6.66	4.96	4.95
6/ 2/86	8.06	8.06	8.00	7.66	7.30	6.66	4.93	4.92
6/ 3/86	8.06	8.06	7.99	7.65	7.29	6.67	4.93	4.93
6/ 4/86	8.03	8.06	7.99	7.65	7.29	6.66	4.86	4.86
6/ 5/86	8.01	8.05	7.99	7.65	7.28	6.64	4.79	4.78
6/ 6/86	8.03	8.04	7.98	7.65	7.28	6.63	4.73	4.72
6/ 7/86	8.10	8.07	8.00	7.66	7.28	6.63	4.73	4.72
6/ 8/86	8.11	8.08	8.02	7.66	7.30	6.64	5.03	5.01
6/ 9/86	8.07	8.08	8.04	7.66	7.31	6.65	5.35	5.33
6/10/86	8.07	8.02	8.01	7.70	7.31	6.63	5.20	5.19
6/11/86	8.07	7.91	7.90	7.78	7.32	6.56	4.91	4.91

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
6/12/86	8.05	7.91	7.90	7.80	7.35	6.61	4.85	4.83
6/13/86	8.05	7.93	7.89	7.82	7.41	6.73	4.87	4.85
6/14/86	8.05	7.92	7.89	7.81	7.42	6.71	4.88	4.86
6/15/86	8.05	7.93	7.90	7.83	7.52	6.71	4.95	4.93
6/16/86	8.06	7.94	7.92	7.84	7.55	6.71	5.04	5.03
6/17/86	8.09	7.93	7.93	7.82	7.54	6.74	5.03	5.03
6/18/86	8.12	7.99	7.94	7.69	7.54	6.76	5.04	5.02
6/19/86	8.16	8.02	7.97	7.70	7.55	6.78	5.05 P	5.08
6/20/86	8.17	8.05	7.98	7.72	8.00	6.87	M	5.35
6/21/86	8.14	8.02	7.96	7.70	8.63	6.87	M	5.23
6/22/86	8.15	8.02	7.95	7.68	8.67	6.86	M	4.96
6/23/86	8.14	8.01	7.95	7.66	8.71	6.94	5.16 P	5.05
6/24/86	8.14	8.01	7.96	7.68	8.73	7.16	5.42	5.38
6/25/86	8.37	8.25	8.10	7.80	8.77	7.18	4.80	4.76
6/26/86	8.52	8.41	8.24	7.97	8.83	7.19	4.66	4.61
6/27/86	8.54	8.43	8.26	8.00	8.86	7.20	4.80	4.75
6/28/86	8.54	8.44	8.27	8.02	8.88	7.21	4.75	4.70
6/29/86	8.56	8.46	8.28	8.05	8.94	7.25	4.78	4.73
6/30/86	8.67	8.60	8.36	8.11	8.98	7.28	4.81	4.77
7/ 1/86	8.91	8.82	8.56	8.41	9.04	7.32	4.77	4.73
7/ 2/86	9.03	8.95	8.69	8.55	9.08	7.35	4.79	4.73
7/ 3/86	9.03	8.95	8.70	8.56	9.07	7.42	4.89	4.84
7/ 4/86	9.03	8.95	8.70	8.57	9.08	7.46	4.99	4.95
7/ 5/86	9.04	8.97	8.72	8.59	9.10	7.48	5.11	5.08
7/ 6/86	9.06	8.99	8.74	8.60	9.13	7.49	5.07	5.03
7/ 7/86	9.14	9.07	8.89	8.81	9.16	7.48	5.07	5.03
7/ 8/86	9.28	9.29	9.22	9.24	9.16	7.48	5.08	5.04
7/ 9/86	9.25	9.26	9.30	9.34	9.18	7.47	5.18	5.15
7/10/86	9.24	9.24	9.29	9.33	9.20	7.46	5.31	5.26
7/11/86	9.26	9.26	9.30	9.34	9.20	7.46	5.21	5.15
7/12/86	9.25	9.25	9.30	9.34	9.20	7.47	5.15	5.09
7/13/86	9.24	9.25	9.29	9.34	9.22	7.48	5.09	5.03
7/14/86	9.24	9.25	9.30	9.34	9.24	7.48	5.04	5.01
7/15/86	9.23	9.25	9.29	9.33	9.24	7.47	4.95	4.93
7/16/86	9.22	9.24	9.28	9.33	9.26	7.47	4.89	4.86
7/17/86	9.21	9.23	9.28	9.32	9.30	7.47	5.34	5.30
7/18/86	9.22	9.23	9.28	9.32	9.30	7.46	5.30	5.26
7/19/86	9.25	9.26	9.30	9.35	9.32	7.48	5.35	5.31
7/20/86	9.22	9.23	9.28	9.33	9.32	7.49	5.42	5.38
7/21/86	9.21	9.23	9.28	9.33	9.37	7.49	5.40	5.36
7/22/86	9.27	9.30	9.25	9.27	9.40	7.50	5.37	5.33
7/23/86	9.27	9.29	9.13	9.13	9.42	7.51	5.44	5.39
7/24/86	9.25	9.28	9.12	9.11	9.43	7.51	5.33 P	5.26 P
7/25/86	9.24	9.26	9.11	9.10	9.35	7.51	5.22	5.15
7/26/86	9.25	9.27	9.12	9.13	9.25	7.53	5.61	5.54
7/27/86	9.30	9.34	9.17	9.19	9.27	7.51	5.74	5.66
7/28/86	9.31	9.35	9.18	9.19	9.26	7.46	5.46	5.39
7/29/86	9.31	9.35	9.18	9.06	9.25	7.43	4.96	4.89

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
7/30/86	9.31	9.34	9.17	8.97	9.25	7.41	4.97	4.90
7/31/86	9.30	9.33	9.17	8.95	9.23	7.43	4.89	4.83
8/ 1/86	9.31	9.34	9.17	8.95	9.21	7.46	4.90	4.83
8/ 2/86	9.32	9.35	9.17	8.95	9.18	7.50	4.88	4.81
8/ 3/86	9.32	9.34	9.17	8.96	9.18	7.51	4.87	4.80
8/ 4/86	9.32	9.34	9.17	8.96	9.19	7.53	4.91	4.84
8/ 5/86	9.32	9.35	9.09	8.95	9.20	7.51	4.94	4.87
8/ 6/86	9.32	9.35	8.88	8.73	9.18	7.49	4.87	4.80
8/ 7/86	9.31	9.35	8.87	8.71	9.17	7.47	4.85	4.77
8/ 8/86	9.30	9.33	8.86	8.69	9.16	7.46	4.89	4.80
8/ 9/86	9.30	9.32	8.85	8.69	9.14	7.46	5.36	5.29
8/10/86	9.28	9.30	8.84	8.68	9.13	7.46	5.50	5.43
8/11/86	9.30	9.33	8.87	8.70	9.16	7.49	5.26	5.19
8/12/86	9.16	9.21	8.82	8.65	9.15	7.49	4.92	4.84
8/13/86	9.07	9.11	8.77	8.60	9.15	7.50	4.94	4.87
8/14/86	9.08	9.13	8.78	8.60	9.15	7.50	4.90	4.83
8/15/86	9.07	9.12	8.77	8.61	9.15	7.46	4.87	4.80
8/16/86	9.08	9.12	8.77	8.61	9.16	7.50	4.91	4.85
8/17/86	9.10	9.15	8.79	8.62	9.20	7.51	5.04	4.98
8/18/86	9.12	9.18	8.80	8.64	9.22	7.48	5.34	5.28
8/19/86	9.23	9.19	8.85	8.70	9.26	7.41	5.50	5.44
8/20/86	9.22	9.39	8.86	8.71	9.27	7.37	5.46	5.40
8/21/86	9.04	9.37	8.71	8.59	9.27	7.44	5.39	5.33
8/22/86	9.04	9.30	8.71	8.58	9.26	7.46	5.32	5.27
8/23/86	9.03	9.23	8.71	8.58	9.25	7.48	5.26	5.20
8/24/86	9.02	9.16	8.70	8.57	9.23	7.47	5.24	5.19
8/25/86	9.02	9.09	8.70	8.57	9.23	7.48	5.10	4.98
8/26/86	9.07	9.03	8.74	8.63	9.23	7.47	5.06	4.93
8/27/86	9.11	9.04	8.79	8.68	9.23	7.45	5.13	5.01
8/28/86	9.12	9.05	8.79	8.69	9.22	7.45	5.13	5.01
8/29/86	9.12	9.06	8.79	8.69	9.23	7.47	5.14	5.03
8/30/86	9.12	9.07	8.79	8.69	9.22	7.47	5.03	4.92
8/31/86	9.11	9.09	8.79	8.68	9.22	7.47	4.97	4.87
9/ 1/86	9.10	9.10	8.79	8.67	9.22	7.46	4.91	4.80
9/ 2/86	9.10	9.11	8.79	8.69	9.22	7.33	4.84	4.74
9/ 3/86	9.06	9.12	8.79	8.66	9.23	7.48	4.84	4.75
9/ 4/86	9.03	9.13	8.79	8.51	9.23	7.48	4.84	4.74
9/ 5/86	9.04	9.13	8.80	8.33	9.22	7.51	4.88	4.77
9/ 6/86	9.04	9.13	8.81	8.16	9.24	7.49	4.89	4.81
9/ 7/86	9.05	9.14	8.82	7.98	9.24	7.50	4.99	4.91
9/ 8/86	9.06	9.14	8.82	7.81	9.24	7.50	5.12	5.05
9/ 9/86	9.00	9.14	8.77	7.66	9.23	7.50	5.18	5.12
9/10/86	8.91	9.13	8.68	7.69	9.23	7.49	5.15	5.08
9/11/86	8.89	9.12	8.67	7.75	9.22	7.47	5.08	5.01
9/12/86	8.89	9.10	8.67	7.81	9.22	7.46	5.01	4.94
9/13/86	8.89	9.09	8.66	7.87	9.22	7.48	4.95	4.90
9/14/86	8.88	9.07	8.66	7.93	9.21	7.48	4.88	4.82
9/15/86	8.88	9.06	8.66	8.00	8.87	7.47	4.83	4.79

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
9/16/86	8.88	9.05	8.64	8.06	8.40	7.47	4.83	4.78
9/17/86	8.88	9.03	8.62	8.12	8.35	7.48	4.84	4.77
9/18/86	8.88	9.02	8.62	8.18	8.31	7.48	4.83	4.75
9/19/86	8.87	9.01	8.48	8.24	8.26	7.48	5.13	5.05
9/20/86	8.88	8.99	8.62	8.30	8.23	7.49	5.41	5.34
9/21/86	8.89	8.98	8.63	8.36	8.20	7.50	5.54	5.46
9/22/86	8.89	8.97	8.64	8.42	8.17	7.47	5.58	5.50
9/23/86	8.83	8.95	8.60	8.47	8.17	7.46	5.53	5.46
9/24/86	8.77	8.93	8.53	8.47	8.22	7.46	5.48	5.41
9/25/86	8.76	8.90	8.53	8.45	8.24	7.47	5.45	5.38
9/26/86	8.76	8.88	8.52	8.44	8.21	7.47	5.45	5.39
9/27/86	8.76	8.86	8.52	8.42	8.18	7.45	5.45	5.39
9/28/86	8.76	8.83	8.52	8.41	8.16	7.47	5.46	5.40
9/29/86	8.75	8.81	8.52	8.40	8.14	7.48	5.56	5.49
9/30/86	8.75	8.79 P	8.54	8.38 P	8.12	7.48	5.67	5.61
10/ 1/86	8.75	8.84	8.54	8.40	8.10	7.48	5.56	5.49
10/ 2/86	8.75	8.84	8.54	8.40	8.09	7.47	5.48	5.42
10/ 3/86	8.76	8.85	8.54	8.40	8.07	7.47	5.47	5.40
10/ 4/86	8.75	8.85	8.54	8.40	8.03	7.46	5.42	5.34
10/ 5/86	8.75	8.85	8.54	8.41	8.00	7.46	5.42	5.35
10/ 6/86	8.75	8.84	8.54	8.40	7.98	7.46	5.51	5.43
10/ 7/86	8.74	8.84	8.54	8.38	7.96	7.47	5.58	5.50
10/ 8/86	8.74	8.84	8.53	8.36	7.96 <	7.51	5.58	5.50
10/ 9/86	8.74	8.84	8.53	8.36	7.95 <	7.52	5.57	5.49
10/10/86	8.75	8.84	8.53	8.36	7.95 <	7.53	5.58	5.50
10/11/86	8.75	8.84	8.53	8.37	7.95 <	7.51	5.62	5.54
10/12/86	8.74	8.84	8.53	8.36	7.96 <	7.48	5.61	5.55
10/13/86	8.74	8.83	8.53	8.36	7.96 <	7.47	5.61	5.55 P
10/14/86	8.81	8.91	8.60	8.43	7.96 <	7.45	5.60	M
10/15/86	8.95	9.04	8.73	8.55	7.95 <	7.46	5.61	M
10/16/86	8.95	9.05	8.74	8.56	7.95 <	7.47	5.65	M
10/17/86	8.95	9.07	8.74	8.56	7.95 <	7.47	5.64	5.57 P
10/18/86	8.95	9.03	8.74	8.56	7.95 <	7.47	5.62	5.57
10/19/86	8.96	9.03	8.75	8.57	7.95 <	7.48	5.61	5.54
10/20/86	8.96	9.03	8.75	8.57	7.95 <	7.47	5.60	5.53
10/21/86	8.95	8.85	8.63	8.56	7.95 <	7.45	5.58	5.50
10/22/86	8.95	8.72	8.53	8.54	7.95 <	7.42	5.56	5.47
10/23/86	8.95	8.71	8.51	8.54	7.95 <	7.42	5.55	5.47
10/24/86	8.95	8.70	8.51	8.53	7.95 <	7.41	5.53	5.45
10/25/86	8.94	8.70	8.50	8.53	7.96 <	7.39	5.51	5.43
10/26/86	8.94	8.70	8.50	8.53	7.95 <	7.39	5.49	5.41
10/27/86	8.93	8.69	8.50	8.52	7.94 <	7.38	5.46	5.39
10/28/86	8.78	8.64	8.45	8.38	7.94 <	7.37	5.46	5.39
10/29/86	8.58	8.59	8.35	8.17	7.94 <	7.34	5.45	5.38
10/30/86	8.56	8.58	8.34	8.15	7.95 <	7.32	5.30	5.24
10/31/86	8.56	8.58	8.33	8.14	7.95 <	7.30	5.26	5.19
11/ 1/86	8.55	8.58	8.33	8.13	7.95 <	7.28	5.25	5.18
11/ 2/86	8.55	8.57	8.32	8.12	7.95 <	7.26	5.24	5.17

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
11/ 3/86	8.54	8.57	8.31	8.12	7.91 <	7.25	5.29	5.21
11/ 4/86	8.48	8.53	8.29	8.08	7.86	7.23	5.39	5.31
11/ 5/86	8.42	8.49	8.26	8.03	7.86	7.22	5.40	5.33
11/ 6/86	8.41	8.48	8.25	8.02	7.85	7.21	5.38	5.32
11/ 7/86	8.41	8.48	8.25	8.02	7.84	7.20	5.37	5.30
11/ 8/86	8.41	8.48	8.24	8.02	7.83	7.19	5.35	5.29
11/ 9/86	8.40	8.48	8.24	8.02	7.84	7.18	5.36	5.29
11/10/86	8.39	8.45	8.22	8.01	7.84	7.17	5.36	5.30
11/11/86	8.38	8.37	8.15	8.00	7.84	7.13	5.35	5.30
11/12/86	8.37	8.36	8.14	7.99	7.83	7.11	5.32	5.26
11/13/86	8.36	8.36	8.14	7.99	7.83	7.10	5.27	5.22
11/14/86	8.37	8.38	8.16	8.01	7.88	7.13	5.34	5.29
11/15/86	8.37	8.38	8.15	8.00	7.91	7.15	5.46	5.41
11/16/86	8.36	8.36	8.13	7.99	7.89	7.14	5.47	5.42
11/17/86	8.36	8.36	8.13	7.99	7.87	7.12	5.49	5.45
11/18/86	8.30	8.29	8.12	7.98	7.89	7.10	5.53	5.49
11/19/86	8.22	8.23	8.10	7.98	7.89	7.07	5.53	5.50
11/20/86	8.21	8.21	8.09	7.97	7.89	7.05	5.52	5.50
11/21/86	8.19	8.20	8.09	7.97	7.88	7.04	5.49	5.47
11/22/86	8.19	8.20	8.08	7.97	7.88	7.05	5.58	5.55
11/23/86	8.19	8.19	8.08	7.96	7.88	7.05	5.68	5.65
11/24/86	8.18	8.19	8.07	7.96	7.88	7.04	5.64	5.60
11/25/86	8.17	8.18	8.06	7.90	7.89	7.02	5.64	5.59
11/26/86	8.17	8.17	8.04	7.80	7.88	7.00	5.59	5.55
11/27/86	8.16	8.16	8.03	7.79	7.87	6.98	5.58	5.54
11/28/86	8.16	8.16	8.03	7.78	7.86	6.98	5.58	5.54
11/29/86	8.16	8.17	8.03	7.78	7.85	6.99	5.35	5.32
11/30/86	8.15	8.15	8.02	7.77	7.84	6.98	5.22	5.18
12/ 1/86	8.15	8.15	8.02	7.76	7.83	6.99	5.25	5.20
12/ 2/86	8.15	8.13	7.98	7.75	7.79	6.98	5.26	5.23
12/ 3/86	8.13	8.11	7.92	7.73	7.79	6.97	5.36	5.31
12/ 4/86	8.12	8.09	7.90	7.72	7.78	6.96	5.53	5.48
12/ 5/86	8.12	8.08	7.90	7.71	7.77	6.96	5.55	5.50
12/ 6/86	8.12	8.07	7.90	7.71	7.78	6.96	5.56	5.52
12/ 7/86	8.11	8.06	7.89	7.70	7.77	6.96	5.59	5.56
12/ 8/86	8.10	8.05	7.89	7.70	7.78	6.95	5.54	5.50
12/ 9/86	8.09	7.97	7.87	7.70	7.78	6.93	5.53	5.49
12/10/86	8.06	7.85	7.81	7.68	7.77	6.89	5.51	5.47
12/11/86	8.03	7.82	7.78	7.67	7.78	6.87	5.54	5.50
12/12/86	8.02	7.80	7.76	7.66	7.78	6.86	5.55	5.51
12/13/86	8.01	7.79	7.74	7.65	7.77	6.84	5.49	5.44
12/14/86	8.00	7.78	7.73	7.64	7.77	6.84	5.46	5.41
12/15/86	7.99	7.76	7.73	7.63	7.77	6.81	5.49	5.44
12/16/86	7.99	7.75	7.72	7.62	7.75	6.79	5.49	5.43
12/17/86	7.94	7.73	7.70	7.58	7.75	6.78	5.47	5.41
12/18/86	7.92	7.72	7.68	7.56	7.75	6.77	5.52	5.46
12/19/86	7.91	7.71	7.67	7.56	7.74	6.76	5.51	5.44
12/20/86	7.90	7.70	7.67	7.55	7.74	6.75	5.48	5.42

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
12/21/86	7.90	7.70	7.66	7.55	7.74	6.75	5.44	5.39
12/22/86	7.89	7.69	7.65	7.54	7.73	6.75	5.43	5.38
12/23/86	7.89	7.69	7.65	7.54	7.72	6.75	5.44	5.38
12/24/86	7.99	7.82	7.77	7.60	7.74	6.75	5.46	5.40
12/25/86	7.97	7.80	7.76	7.60	7.75	6.71	5.26	5.19
12/26/86	7.96	7.78	7.73	7.58	7.75	6.70	5.32	5.26
12/27/86	8.03	7.84	7.78	7.62	7.79	6.73	5.61	5.55
12/28/86	8.03	7.85	7.80	7.62	7.82	6.74	5.73	5.67
12/29/86	8.00	7.80	7.76	7.60	7.82	6.73	5.73	5.68
12/30/86	7.99	7.78	7.74	7.59	7.81	6.73	5.71	5.66
12/31/86	8.00	7.79	7.74	7.59	7.82	6.80	5.74	5.69
1/ 1/87	8.03	7.83	7.79	7.61	7.85	6.81	5.64	5.60
1/ 2/87	8.00	7.80	7.75	7.59	7.84	6.81	5.06	5.02
1/ 3/87	7.99	7.77	7.74	7.59	7.80	6.80	4.65	4.60
1/ 4/87	8.02	7.79	7.74	7.59	7.82	6.81	4.69	4.64
1/ 5/87	8.06	7.79	7.76	7.60	7.84	6.80	4.60	4.57
1/ 6/87	8.08	7.85	7.77	7.62	7.83	6.83	4.50	4.45
1/ 7/87	8.15	8.05	7.92	7.75	7.84	6.90	4.70	4.65
1/ 8/87	8.16	8.08	7.94	7.76	7.83	6.91	4.98	4.93
1/ 9/87	8.16	8.08	7.95	7.76	7.84	6.92	5.03	4.99
1/10/87	8.16	8.08	7.96	7.76	7.84	6.91	5.07	5.02
1/11/87	8.16	8.08	7.96	7.76	7.84	6.91	5.05	5.00
1/12/87	8.16	8.08	7.96	7.76	7.83	6.91	5.04	4.98
1/13/87	8.23	8.17	8.03	7.76	7.82	6.93	5.00	4.96
1/14/87	8.34	8.31	8.13	7.78	7.82	6.99	5.00	4.95
1/15/87	8.36	8.31	8.14	7.78	7.82	6.99	4.98	4.93
1/16/87	8.36	8.32	8.14	7.78	7.81	6.99	4.94	4.88
1/17/87	8.37	8.32	8.15	7.78	7.81	6.99	4.98	4.92
1/18/87	8.37	8.32	8.15	7.78	7.81	6.99	4.98	4.92
1/19/87	8.38	8.33	8.15	7.78	7.80	6.99	4.97	4.92
1/20/87	8.37	8.31	8.15	7.78	7.79	6.98	4.97	4.91
1/21/87	8.33	8.26	8.14	7.78	7.79	6.99	5.03	4.98
1/22/87	8.33	8.26	8.15	7.79	7.78	6.98	5.04	5.00
1/23/87	8.34	8.27	8.15	7.79	7.78	6.95	5.11	5.08
1/24/87	8.34	8.27	8.15	7.79	7.79	6.91	5.23	5.17
1/25/87	8.34	8.27	8.16	7.79	7.78	6.90	5.32	5.27
1/26/87	8.34	8.27	8.16	7.79	7.78	6.88	5.29	5.24
1/27/87	8.34	8.26	8.13	7.79	7.78	6.94	5.23	5.18
1/28/87	8.34	8.25	8.11	7.78	7.78	6.99	5.22	5.17
1/29/87	8.34	8.25	8.11	7.78	7.78	6.99	5.19	5.14
1/30/87	8.34	8.25	8.11	7.78	7.76	6.99	5.20	5.15
1/31/87	8.34	8.25	8.11	7.78	7.80	6.99	5.19	5.14
2/ 1/87	8.34	8.25	8.11	7.78	7.80	7.00	5.18	5.13
2/ 2/87	8.34	8.25	8.11	7.78	7.80	6.98	5.19	5.14
2/ 3/87	8.28	8.20	8.10	7.78	7.80	6.93	5.06	5.01
2/ 4/87	8.20	8.15	8.08	7.77	7.74	6.94	4.96	4.91
2/ 5/87	8.21	8.16	8.09	7.78	7.76	6.98	5.06	5.02
2/ 6/87	8.20	8.15	8.09	7.77	7.78	6.95	4.88	4.84

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
2/ 7/87	8.21	8.16	8.09	7.78	7.79	6.95	4.90	4.86
2/ 8/87	8.20	8.15	8.09	7.77	7.78	6.94	4.90	4.87
2/ 9/87	8.19	8.14	8.09	7.77	7.78	6.98	4.97	4.94
2/10/87	8.19	8.14	8.08	7.77	7.76	7.01	5.09	5.06
2/11/87	8.19	8.14	8.08	7.77	7.76	7.00	5.11	5.08
2/12/87	8.19	8.14	8.08	7.77	7.76	7.00	5.10	5.07
2/13/87	8.18	8.13	8.08	7.76	7.75	7.00	5.08	5.05
2/14/87	8.18	8.13	8.08	7.76	7.74	6.99	5.09	5.06
2/15/87	8.18	8.13	8.08	7.76	7.75	7.00	5.12	5.08
2/16/87	8.18	8.13	8.08	7.76	7.75	6.99	5.17	5.14
2/17/87	8.18	8.12	8.07	7.76	7.73	6.98	5.09	5.06
2/18/87	8.20	8.14	8.09	7.78	7.76	6.98	5.08	5.04
2/19/87	8.19	8.14	8.09	7.77	7.77	6.97	5.06	5.02
2/20/87	8.19	8.13	8.08	7.76	7.76	6.97	5.04	5.00
2/21/87	8.19	8.13	8.08	7.76	7.76	6.96	5.09	5.06
2/22/87	8.18	8.13	8.08	7.76	7.76	6.96	5.09	5.06
2/23/87	8.18	8.12	8.07	7.76	7.75	6.94	5.03 E	5.00 E
2/24/87	8.18	8.12	8.07	7.75	7.75	6.97	5.06	5.02
2/25/87	8.18	8.12	8.07	7.75	7.75	6.99	5.13	5.10
2/26/87	8.18	8.12	8.06	7.75	7.75	6.99	5.15	5.13
2/27/87	8.17	8.11	8.06	7.75	7.74	6.98	5.14	5.13
2/28/87	8.17	8.11	8.06	7.75	7.73	6.98	5.15	5.14
3/ 1/87	8.17	8.11	8.06	7.74	7.72	6.97	5.15	5.14
3/ 2/87	8.19	8.13	8.08	7.76	7.71	7.01	5.20	5.19
3/ 3/87	8.18	8.11	8.06	7.75	7.71	7.01	5.30	5.29
3/ 4/87	8.18	8.12	8.06	7.75	7.70	7.02	5.33	5.32
3/ 5/87	8.17	8.11	8.06	7.75	7.69	6.98	5.21	5.17
3/ 6/87	8.19	8.13	8.06	7.76	7.68	6.99	4.97	4.92
3/ 7/87	8.36	8.35	8.22	7.89	7.83	7.11	5.20	5.16
3/ 8/87	8.25	8.21	8.13	7.81	7.84	7.06	4.84	4.81
3/ 9/87	8.22	8.16	8.10	7.79	7.83	7.02	4.84	4.80
3/10/87	8.21	8.14	8.09	7.74	8.15	6.99	5.06	5.01
3/11/87	8.21	8.13	8.08	7.68	8.67	6.98	5.32	5.27
3/12/87	8.22	8.13	8.07	7.67	8.69	6.97	5.36	5.31
3/13/87	8.23	8.13	8.07	7.66	8.71	6.95	5.29	5.24
3/14/87	8.23	8.12	8.07	7.65	8.73	6.96	5.12	5.08
3/15/87	8.23	8.12	8.06	7.65	8.74	6.95	5.09	5.05
3/16/87	8.23	8.12	8.06	7.65	8.75	6.94	5.07	5.03
3/17/87	8.33	8.23	8.10	7.76	8.76	6.99	5.04	4.99
3/18/87	8.45	8.35	8.18	7.93	8.76	7.07	4.97	4.93
3/19/87	8.45	8.35	8.18	7.94	8.76	7.07	4.92	4.88
3/20/87	8.46	8.35	8.18	7.94	8.45	7.08	4.87	4.82
3/21/87	8.46	8.35	8.19	7.94	8.08	7.09	4.90	4.85
3/22/87	8.46	8.35	8.18	7.94	8.03	7.11	4.91	4.86
3/23/87	8.47	8.34	8.18	7.94	8.00	7.11	4.94	4.89
3/24/87	8.48	8.36	8.19	7.95	8.00	7.13	5.10	5.04
3/25/87	8.47	8.38	8.19	7.95	8.05 E	7.12	5.28	5.23
3/26/87	8.48	8.38	8.20	7.95	8.09	7.12	5.31	5.25

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
3/27/87	8.48	8.39	8.20	7.95	8.41	7.12	5.35	5.31
3/28/87	8.48	8.38	8.19	7.95	8.83	7.11	5.35	5.30
3/29/87	8.49	8.39	8.21	7.96	8.85	7.12	5.34	5.29
3/30/87	8.49	8.40	8.20	7.95	9.05	7.12	5.35	5.30
3/31/87	8.50	8.40	8.22	7.98	9.27	7.13	5.39	5.34
4/ 1/87	8.48	8.40	8.24	8.01	9.28	7.16	5.29	5.24
4/ 2/87	8.48	8.40	8.24	8.01	9.27	7.16	5.26	5.21
4/ 3/87	8.48	8.39	8.24	8.01	9.27	7.14	5.22	5.18
4/ 4/87	8.48	8.39	8.24	8.00	9.28	7.14	5.15	5.11
4/ 5/87	8.48	8.39	8.24	8.00	9.27	7.14	5.12	5.08
4/ 6/87	8.48	8.39	8.24	8.00	9.27	7.16	5.11	5.07
4/ 7/87	8.55	8.45	8.28	8.04	9.27	7.24	5.11	5.07
4/ 8/87	8.63	8.52	8.33	8.10	9.27	7.30	5.13	5.10
4/ 9/87	8.63	8.51	8.33	8.10	9.19	7.30	5.17	5.14
4/10/87	8.63	8.50	8.33	8.10	8.82	7.31	5.17	5.12
4/11/87	8.62	8.50	8.33	8.09	8.39	7.31	5.15	5.11
4/12/87	8.62	8.50	8.33	8.09	8.33	7.31	5.15	5.10
4/13/87	8.62	8.50	8.33	8.09	8.28	7.31	5.17	5.15 E
4/14/87	8.58	8.47	8.29	8.06	8.14	7.30	5.18	5.18 E
4/15/87	8.53	8.42	8.24	8.00	8.10	7.27	5.24	5.20 E
4/16/87	8.52	8.42	8.24	8.00	8.06	7.26	5.24	5.22 E
4/17/87	8.51	8.42	8.24	8.00	8.10	7.27	5.26	5.24 E
4/18/87	8.51	8.42	8.23	7.99	8.25	7.28	5.30	5.28
4/19/87	8.51	8.41	8.23	7.99	8.24	7.28	5.29	5.26
4/20/87	8.51	8.41	8.23	7.99	8.47	7.23	5.28	5.25
4/21/87	8.51	8.41	8.23	7.99	8.66	7.15	5.34	5.33
4/22/87	8.50	8.41	8.23	7.99	8.65	7.12	5.32	5.31
4/23/87	8.50	8.41	8.22	7.99	8.63	7.11	5.30	5.29
4/24/87	8.50	8.41	8.22	7.98	8.62	7.11	5.29	5.28
4/25/87	8.49	8.40	8.21	7.98	8.61	7.12	5.28	5.27
4/26/87	8.49	8.39	8.21	7.98	8.59	7.13	5.25	5.25
4/27/87	8.49	8.39	8.20	7.98	8.57	7.13	5.37	5.39
4/28/87	8.48	8.37	8.20	7.97	8.56	7.12	5.47	5.51
4/29/87	8.48	8.36	8.20	7.97	8.52	7.10	5.48	5.50
4/30/87	8.47	8.36	8.20	7.97	8.53	7.09	5.35	5.39
5/ 1/87	8.46	8.35	8.19	7.95	8.54 P	7.07	5.08	5.13
5/ 2/87	8.46	8.35	8.18	7.95	8.48 P	7.07	5.04	5.09
5/ 3/87	8.45	8.34	8.18	7.95	8.45	7.06	5.02	5.06
5/ 4/87	8.45	8.34	8.17	7.94	8.37 P	7.05	4.99	5.04
5/ 5/87	8.42	8.31	8.15	7.92	8.30 P	7.03	4.95	5.00
5/ 6/87	8.40	8.28	8.13	7.88	8.37 P	6.99	4.99	5.00
5/ 7/87	8.39	8.28	8.12	7.88	8.27	6.98	4.86	4.90
5/ 8/87	8.38	8.28	8.12	7.88	7.72	6.98	4.78	4.76
5/ 9/87	8.38	8.28	8.12	7.88	7.26	6.98	4.58	4.54
5/10/87	8.38	8.29	8.14	7.89	7.28	7.00	4.63	4.58
5/11/87	8.39	8.31	8.13	7.89	7.63	7.02	5.02	4.96
5/12/87	8.38	8.29	8.12	7.89	7.89 P	7.00	5.08	5.02
5/13/87	8.37	8.29	8.12	7.89	7.87 P	6.97	5.08	5.02

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
5/14/87	8.36	8.30	8.13	7.90	7.86	6.97	5.07	5.01
5/15/87	8.37	8.30	8.12	7.89	7.85 P	6.97	5.05	4.98
5/16/87	8.37	8.30	8.12	7.89	7.83 P	6.96	5.04	4.97
5/17/87	8.36	8.30	8.11	7.88	7.81 P	6.96	5.00	4.94
5/18/87	8.39	8.30	8.11	7.88	7.79 P	6.94	4.99	4.92
5/19/87	8.38	8.32	8.13	7.87	7.78 P	6.95	4.96	4.90
5/20/87	8.37	8.34	8.15	7.87	7.77	6.97	4.91	4.86
5/21/87	8.37	8.34	8.14	7.86	7.75	6.97	4.86	4.80
5/22/87	8.37	8.34	8.14	7.86	7.72	6.96	4.81	4.74
5/23/87	8.36	8.34	8.14	7.86	7.72	6.95	4.77	4.69
5/24/87	8.36	8.34	8.13	7.85	7.70 P	6.95	4.71	4.64
5/25/87	8.36	8.34	8.14	7.85	7.69	6.94	4.68	4.60
5/26/87	8.35	8.34	8.13	7.86	7.68	6.94	4.62	4.56
5/27/87	8.36	8.34	8.13	7.91	7.66	6.95	4.58	4.51
5/28/87	8.36	8.34	8.13	7.91	7.64	6.95	4.57	4.50
5/29/87	8.36	8.33	8.12	7.90	7.63	6.94	4.54	4.47
5/30/87	8.36	8.33	8.12	7.90	7.61 P	6.93	4.50	4.43
5/31/87	8.36	8.33	8.12	7.89	7.60	6.93	4.47	4.40
6/ 1/87	8.35	8.32	8.13	7.91	8.02 P	6.94	4.43	4.37
6/ 2/87	8.35	8.33	8.11	7.89	8.34	6.94	4.62	4.58
6/ 3/87	8.36	8.33	8.10	7.86	8.18	6.89	4.74	4.71
6/ 4/87	8.35	8.32	8.08	7.87	8.14	6.87	4.75	4.72
6/ 5/87	8.33	8.30	8.07	7.86	8.11	6.86	4.75	4.72
6/ 6/87	8.32	8.28	8.05	7.85	8.08	6.86	4.75	4.73
6/ 7/87	8.31	8.27	8.04	7.85	8.07	6.86	4.83	4.81
6/ 8/87	8.30	8.26	8.04	7.85	8.05	6.86	4.82	4.79
6/ 9/87	8.27	8.22	8.01	7.78	8.01	6.82	4.84	4.81
6/10/87	8.22	8.17	7.95	7.66	8.00	6.76	4.87	4.83
6/11/87	8.20	8.14	7.91	7.63	7.87	6.74	4.93	4.93
6/12/87	8.17	8.10	7.88	7.61	7.72	6.72	4.98	4.98
6/13/87	8.13	8.05	7.85	7.59	7.67	6.70	4.96	4.96
6/14/87	8.07	7.99	7.81	7.60	7.62	6.68	4.96	4.97
6/15/87	8.00	7.92	7.77	7.57	7.53	6.67	5.14	5.09
6/16/87	7.95	7.84	7.72	7.54	7.41	6.64	5.25	5.11
6/17/87	7.90	7.74	7.66	7.52	7.34	6.57	5.23	5.10
6/18/87	7.83	7.66	7.58	7.48	7.26	6.55	5.20	5.10
6/19/87	7.76	7.57	7.49	7.42	7.19	6.52	5.16	5.04
6/20/87	7.68	7.48	7.40	7.36	7.11	6.50	5.13	5.03
6/21/87	7.61	7.39	7.31	7.30	7.05	6.47	5.09	5.00
6/22/87	7.53	7.30	7.24	7.24	7.00	6.45	5.07	4.98
6/23/87	7.49	7.34	7.27	7.25	7.03	6.43	4.84	4.76
6/24/87	7.49	7.35	7.26	7.25	7.06	6.40	4.68	4.61
6/25/87	7.45	7.30	7.24	7.24	7.26	6.38	4.83	4.76
6/26/87	7.48	7.33	7.28	7.27	7.90	6.42	4.71	4.67
6/27/87	7.57	7.38	7.30	7.28	8.02	6.45	5.00	4.97
6/28/87	7.64	7.40	7.31	7.29	8.05	6.48	5.35	5.30
6/29/87	7.72	7.47	7.36	7.32	8.12	6.52	4.95	4.90
6/30/87	7.82	7.53	7.40	7.35	8.13	6.54	4.88	4.84

Table D.10 Average Daily Downstream Water Levels (ft. NGVD), Tamiami Trail and Vicinity,
from July 11, 1985 through July 11, 1987.

Date	S-12A	S-12B	S-12C	S-12D	S-151	S-333	S-334	S-335
	USGS	USGS	USGS	USGS	WMD	USGS	WMD	WMD
7/ 1/87	7.81	7.49	7.38	7.33	7.88	6.47	4.70	4.66
7/ 2/87	7.89	7.52	7.40	7.33	7.53 P	6.45	4.57	4.53
7/ 3/87	8.02	7.62	7.48	7.36	7.49 P	6.44	4.55	4.51
7/ 4/87	7.96	7.60	7.45	7.34	7.45 P	6.42	4.50	4.45
7/ 5/87	7.92	7.56	7.42	7.32	7.43 P	6.40	4.51	4.46
7/ 6/87	7.92	7.54	7.39	7.30	7.41 P	6.38	4.73	4.68
7/ 7/87	8.00	7.57	7.52	7.33	7.39 P	6.37	4.70	4.66
7/ 8/87	8.06	7.62	7.75	7.47	7.37 P	6.40	4.66	4.62
7/ 9/87	8.01	7.62	7.65	7.45	7.37 P	6.38	4.59	4.56
7/10/87	7.97	7.62	7.57	7.41	7.34 P	6.35	4.54	4.50
7/11/87	7.94	7.61	7.51	7.37	7.34 P	6.33	4.47	4.44

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/11/85	2.40	4.14	4.72	4.05	4.70	3.98	3.01	1.54	4.98	4.10
7/12/85	2.38	4.21	4.59	4.17	4.56	3.98	3.09	1.72	4.91	4.22
7/13/85	2.29	4.30	4.41	4.13	4.35	3.85	3.52	2.09	4.82	4.18
7/14/85	2.30	4.34	4.40	4.07	4.34	3.82	3.48 P	2.12	4.84	4.11
7/15/85	2.29	4.35	4.35	3.98	4.29	3.77	M	2.13	4.79	4.02
7/16/85	2.19	4.30	4.37	3.83	4.34	3.89	3.30 P	2.08	4.74	3.87
7/17/85	2.18	4.29	4.38	3.92	4.33	3.90	3.29	2.08	4.95	3.98
7/18/85	2.26	4.29	4.33	4.09	4.29	3.88	3.32	2.12	4.84	4.15
7/19/85	2.31	4.27	4.28	4.16	4.23	3.76	3.38	2.16	4.77	4.22
7/20/85	2.33	4.30	4.37	4.34	4.32	3.87	3.32	2.18	4.79	4.40
7/21/85	2.36	4.42	4.60	4.48	4.54	4.01	3.34	2.20	4.44 E	4.53
7/22/85	2.39	4.25	4.52	4.29	4.46	3.88	3.36	2.20	4.46	4.38
7/23/85	2.58	3.28	5.03	4.45	4.98	4.02	2.88	2.15	5.51	4.57
7/24/85	2.72	3.58	4.97	4.43	4.90	3.94	3.33	1.52	5.74	4.56
7/25/85	2.57	3.58	4.89	4.27	4.81	3.66	3.60	2.34	4.60 E	4.39
7/26/85	2.61	3.56	4.66	4.10	4.60	3.50	3.75	2.45	4.63	4.22
7/27/85	2.59	3.56	4.49	3.93	4.43	3.37	3.70	2.44	4.51	4.07
7/28/85	2.56	3.38	4.31	3.80	4.25	3.26	3.57	2.43	4.52	3.93
7/29/85	2.46	3.91	4.25	3.88 E	4.22	3.51	3.40	2.36	4.54 E	4.00
7/30/85	2.36	4.46	4.45	4.30	4.41	4.00	3.20	2.30	4.56 E	4.39
7/31/85	2.39	4.41	4.42	4.31	4.38	3.91	3.10	2.32	4.60 E	4.39
8/ 1/85	2.43	4.47	4.55	4.42	4.50	3.86	3.05	2.36	4.89 E	4.51
8/ 2/85	2.46	4.69	4.70	4.51	4.65	4.04	3.19	2.37	4.78 E	4.60
8/ 3/85	2.43	4.67	4.67	4.45	4.63	4.07	3.23	2.36	4.61 E	4.55
8/ 4/85	2.47	4.60	4.57	4.36	4.52	3.90	3.20	2.40	4.58 E	4.46
8/ 5/85	2.54	4.58	4.54	4.26	4.49	3.81	3.21	2.46	4.51 E	4.35
8/ 6/85	2.54	4.52	4.50	4.33	4.45	3.83	3.29	2.46	4.86 E	4.43
8/ 7/85	2.54	4.46	4.42	4.26	4.38	3.76	3.25	2.46	5.02 E	4.38 P
8/ 8/85	2.47	4.34	4.36	3.93	4.32	3.87	3.18	2.40	5.27	3.99 P
8/ 9/85	2.44	4.27	4.33	3.80	4.30	3.87	3.12	2.39	5.10	3.90
8/10/85	2.43	4.21	4.28	3.77	4.24	3.83	3.07	2.40	5.09	3.87
8/11/85	2.47	4.13	4.23	3.69	4.19	3.77	3.00	2.42	5.15	3.80
8/12/85	2.43	4.10	4.44	3.59	4.38	3.81	2.94	2.38	4.72 E	3.69
8/13/85	2.42	4.05	4.43	3.54	4.36	3.80	2.88	2.36	4.69 E	3.64
8/14/85	2.32	4.00	4.41	3.70	4.39	4.10	2.79	2.27	4.64 E	3.78
8/15/85	2.22	3.94	4.43	4.04	4.42	4.34	2.80	2.19	4.80 E	4.14
8/16/85	2.19	3.84	4.39	3.84	4.39	4.32	2.78	2.15	5.10	3.94
8/17/85	2.14	3.78	4.42	3.69	4.44	4.33	2.76	2.12	5.04	3.80
8/18/85	2.11	3.73	4.46	3.75	4.48	4.37	2.73	2.10	5.08	3.85
8/19/85	2.19	3.70	4.48	3.82	4.48	4.07	2.81	2.16	4.92 E	3.92
8/20/85	2.22	3.65	4.33	3.72	4.34	3.96	2.87	2.18	5.01 E	3.81
8/21/85	2.17	3.71	4.35	3.62	4.36	3.91	2.82	2.14	5.04 E	3.72
8/22/85	2.16	3.79	4.35	3.55	4.37	3.90	2.79	2.13	5.02 E	3.64
8/23/85	2.13	3.83	4.33	3.49	4.35	3.90	2.72	2.10	5.05 E	3.58
8/24/85	2.07	3.82	4.17	3.46	4.22	3.84	2.73	2.04	5.51	3.54
8/25/85	2.03	3.77	4.13	3.39	4.18	3.67	2.69	2.00	5.62	3.49
8/26/85	2.08	3.73	4.27	3.39	4.31	3.59	2.65	1.93	5.44	3.48
8/27/85	2.31	3.76	4.32	3.71	4.36	3.94	2.70	1.87	5.27	3.79

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
8/28/85	2.37	3.75	4.29	3.85	4.33	4.04	2.72	1.82	5.35	3.94
8/29/85	2.37	3.87	4.41	3.97	4.41	4.00	3.02	1.97	5.22	4.06
8/30/85	2.25	3.99	4.42	3.98	4.43	3.93	3.03	2.14	5.13 E	4.08
8/31/85	2.22	4.05	4.40	4.22	4.40	3.94	2.92	2.13	4.89 E	4.31
9/ 1/85	2.26	4.12	4.64	4.45	4.63	4.05	2.84	2.16	4.17	4.54
9/ 2/85	2.31	4.17	4.64	4.51	4.63	4.12	2.79	2.20	4.43	4.59
9/ 3/85	2.36	4.08	4.28	4.20	4.28	3.90	2.80	2.26	5.40	4.28
9/ 4/85	2.34	4.01	4.32	4.14	4.33	3.98	2.78	2.25	5.38	4.23
9/ 5/85	2.35	3.96	4.30	3.99	4.30	3.83	2.77	2.26	5.46	4.08
9/ 6/85	2.35	3.92	4.21	3.79	4.20	3.68	2.77	2.25	5.50	3.88
9/ 7/85	2.33	3.86	4.20	3.70	4.18	3.68	2.79	2.24	5.58	3.78
9/ 8/85	2.26	3.82	4.37	3.92	4.37	4.10	2.80	2.21	5.60	4.00
9/ 9/85	2.37	3.82	4.51	4.25	4.50	4.09	2.81	2.28	5.20 E	4.35
9/10/85	2.38	3.83	4.52	4.31	4.50	4.08	2.79	2.27	4.98 E	4.42
9/11/85	2.42	3.86	4.66	4.43	4.62	4.08	2.78	2.25	4.65	4.53
9/12/85	2.40	3.86	4.53	4.11	4.48	3.91	2.83	2.22	4.85	4.20
9/13/85	2.49	3.87	4.59	4.25	4.56	3.84	2.82	2.33	4.16	4.34
9/14/85	2.53	3.95	4.69	4.35	4.64	3.89	2.90	2.35	3.96	4.44
9/15/85	2.60	3.99	4.77	4.46	4.72	3.99	3.07	2.39	3.90	4.56
9/16/85	2.62	4.02	4.86	4.46 E	4.81	4.05	3.20	2.46	4.08	4.57
9/17/85	2.66	4.15	4.82	4.31	4.78	3.99	3.48	2.54	4.85 E	4.46
9/18/85	2.64	3.77	4.76	4.27	4.71	4.02	3.39	2.49	5.68	4.41
9/19/85	2.61	4.09	4.56	4.27	4.51	3.84	3.49	2.45	5.94	4.39
9/20/85	2.60	5.39	4.70	4.32	4.64	3.86	3.67	2.44	6.01	4.43
9/21/85	2.54	5.47	4.63	4.15	4.58	3.74	3.68	2.38	5.53	4.27
9/22/85	2.49	5.32	4.68	4.15	4.63	3.70	3.65	2.33	5.13 E	4.27
9/23/85	2.47	5.16	4.67	4.22 E	4.62	3.64	3.54	2.31	4.92 E	4.32
9/24/85	2.51	5.01	4.76	4.39	4.69	3.64	3.43	2.40	4.55 E	4.48
9/25/85	2.57	4.86	4.69	4.35	4.62	3.63	3.33	2.50	4.55	4.44
9/26/85	2.57	4.73	4.72	4.33	4.65	3.61	3.24	2.52	4.23	4.42
9/27/85	2.59	4.60	4.67	4.31	4.60	3.60	3.16	2.52	4.31 E	4.41
9/28/85	2.54	4.47	4.60	4.28	4.55	3.99	3.11	2.47	4.57	4.36
9/29/85	2.58	4.35	4.61	4.33	4.55	3.86	3.10	2.49	4.57	4.42
9/30/85	2.64	4.30	4.60	4.33	4.54	3.78	3.10	2.53	4.60	4.42
10/ 1/85	2.65	4.24	4.58	4.28	4.51	3.65	3.09	2.55	4.44 E	4.38
10/ 2/85	2.63	4.16	4.48	4.18 E	4.41	3.59	3.04	2.54	4.48	4.28
10/ 3/85	2.62	4.08	4.43	4.21	4.37	3.54	2.99	2.53	4.45	4.29
10/ 4/85	2.62	4.00	4.50	4.37	4.44	3.57	2.95	2.53	4.43	4.45
10/ 5/85	2.63	3.93	4.67	4.55	4.59	3.65	2.92	2.55	4.51	4.64
10/ 6/85	2.63	3.90	4.73	4.63	4.65	3.65	2.93	2.55	4.54	4.71
10/ 7/85	2.65	3.95	4.78	4.65	4.69	3.72	3.12	2.57	4.74	4.73
10/ 8/85	2.65	3.89	4.63	4.43	4.56	3.65	3.03	2.56	4.68	4.52
10/ 9/85	2.64	3.84	4.49	4.23	4.43	3.57	2.96	2.55	4.47	4.32
10/10/85	2.62	3.76	4.43	4.18	4.36	3.51	2.89	2.53	4.32	4.28
10/11/85	2.55	3.67	4.35	4.00	4.31	3.81	2.91	2.47	4.45	4.12
10/12/85	2.47	3.60	4.27	3.86	4.26	3.93	2.88	2.41	4.55	3.99
10/13/85	2.53	3.54	4.17	3.74	4.13	3.54	2.86	2.46	4.40	3.86
10/14/85	2.54	3.46	3.89	3.55	3.86	3.27	2.80	2.47	4.67	3.65

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
10/15/85	2.54	3.37	3.77	3.42	3.71	3.12	2.74	2.47	4.70	3.51
10/16/85	2.52	3.27	3.70	3.35	3.63	3.17	2.66	2.45	4.73	3.44
10/17/85	2.49	3.18	3.71	3.35	3.64	3.33	2.60	2.43	4.83	3.43
10/18/85	2.49	3.12	3.71	3.35	3.65	3.33	2.56	2.42	5.00	3.44
10/19/85	2.50	3.10	3.72	3.39	3.67	3.34	2.60	2.44	5.06	3.48
10/20/85	2.67	3.18	3.96	3.64	3.88	3.31	2.78	2.55	5.18	3.73
10/21/85	2.68	3.16	4.17	3.37	4.06	3.19	2.72	2.56	4.79	3.45
10/22/85	2.69	3.20	4.19	3.18	4.07	3.11	2.68	2.56	4.88	3.26
10/23/85	2.67	3.28	4.07	3.16	3.97	3.06	2.64	2.55	4.84	3.24
10/24/85	2.67	3.34	4.22	3.28	4.11	3.08	2.60	2.56	4.57	3.37
10/25/85	2.66	3.43	4.25	3.27	4.13	3.07	2.56	2.55	4.52	3.36
10/26/85	2.66	3.47	4.24	3.34	4.11	3.05	2.52	2.55	4.45	3.43
10/27/85	2.67	3.46	4.28	3.52	4.17	3.10	2.58	2.57	4.43	3.60
10/28/85	2.68	3.49	4.34	3.43	4.23	3.13	2.66	2.59	4.47	3.52
10/29/85	2.67	3.53	4.11	3.31	4.03	3.08	2.63	2.59	4.58	3.40
10/30/85	2.65	3.54	3.73	3.33	3.66	2.97	2.57	2.57	5.04	3.42
10/31/85	2.56	3.52	3.68	3.29	3.62	3.16	2.50	2.50	5.10	3.37
11/ 1/85	2.52	3.49	3.70	3.31	3.65	3.32	2.44	2.48	5.12	3.39
11/ 2/85	2.52	3.45	3.67	3.29	3.62	3.30	2.40	2.47	5.12	3.38
11/ 3/85	2.50	3.41	3.65	3.29	3.59	3.28	2.37	2.45	5.12	3.37
11/ 4/85	2.50	3.40	3.79	3.41	3.74	3.37	2.36	2.48	5.16	3.49
11/ 5/85	2.49	3.35	3.90	3.24	3.83	3.40	2.32	2.47	5.18	3.33
11/ 6/85	2.48	3.33	3.87	3.30	3.80	3.38	2.28	2.44	5.18	3.39
11/ 7/85	2.46	3.30	3.86	3.48	3.79	3.38	2.24	2.43	5.15	3.57
11/ 8/85	2.45	3.26	3.85	3.47	3.78	3.35	2.20	2.41	5.12	3.53
11/ 9/85	2.44	3.23	3.83	3.45	3.76	3.34	2.17	2.39	5.12	3.52
11/10/85	2.42	3.21	3.84	3.53	3.77	3.35	2.15	2.38	5.11	3.60
11/11/85	2.42	3.19	3.85	3.53	3.76	3.35	2.14	2.37	5.14	3.61
11/12/85	2.37	3.17	3.92	3.44	3.87	3.24	2.14	2.34	5.43	3.52
11/13/85	2.32	3.17	4.14	3.26	4.11	3.18	2.13	2.18	5.60	3.34
11/14/85	2.38	3.15	4.30	3.25	4.27	3.16	2.10	2.06	5.51	3.34
11/15/85	2.43	3.15	4.30	3.37	4.24	3.26	2.08	2.00	5.36	3.44
11/16/85	2.22	3.14	4.44	3.48	4.37	3.18	2.09	2.18	5.30	3.55
11/17/85	2.20	3.15	4.34	3.46	4.27	3.25	2.09	2.17	5.30	3.53
11/18/85	2.30	3.16	3.92	3.31	3.83	2.90	2.08	2.26	5.24	3.40
11/19/85	2.38	3.23	4.01	3.35 E	3.93	2.94	2.13	2.28	5.18	3.45
11/20/85	2.57	3.31	4.15	3.41	4.04	3.05	2.27	2.44	5.19	3.52
11/21/85	2.52	3.34	3.92	3.21	3.80	3.14	2.26	2.44	4.95	3.29
11/22/85	2.46	3.33	3.95	3.34	3.84	3.39	2.24	2.41	4.91	3.42
11/23/85	2.45	3.33	3.95	3.28	3.85	3.39	2.25	2.40	4.92	3.36
11/24/85	2.43	3.27	3.90	3.23	3.81	3.36	2.24	2.39	4.90	3.30
11/25/85	2.39	3.22	4.09	3.24 E	4.02	3.22	2.23	2.36	4.85	3.32
11/26/85	2.28	3.15	4.44	3.35	4.39	3.23	2.18	2.25	4.91	3.43
11/27/85	2.25	3.12	4.35	3.38	4.30	3.23	2.15	2.22	4.99	3.45
11/28/85	2.27	3.10	4.21	3.33	4.17	3.17	2.14	2.15	5.19	3.40
11/29/85	2.36	3.09	4.18	3.29	4.14	3.16	2.12	2.04	5.24	3.37
11/30/85	2.37	3.08	4.16	3.26	4.11	3.12	2.10	1.98	5.27	3.34
12/ 1/85	2.37	3.07	4.15	3.23	4.10	3.11	2.08	1.94	5.28	3.32

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
12/ 2/85	2.37	3.11	4.10	3.30	4.05	3.09	2.05	1.92	5.29	3.39
12/ 3/85	2.37	3.11	4.04	3.47	3.98	3.11	2.05	1.90	5.30	3.56
12/ 4/85	2.35	3.05	4.05	3.47	3.99	3.13	2.09	1.90	5.29	3.56
12/ 5/85	2.38	3.07	4.24	3.54	4.18	3.21	2.30	2.01	5.23	3.62
12/ 6/85	2.42	3.25	4.14	3.53	4.04	3.06	2.39	2.22	5.09	3.61
12/ 7/85	2.42	3.33	3.79	3.14	3.66	2.77	2.32	2.38	4.89	3.23
12/ 8/85	2.42	3.30	3.68	3.00	3.56	2.74	2.26	2.37	4.79	3.08
12/ 9/85	2.41	3.26	3.83	3.01	3.76	2.86	2.20	2.26	4.91	3.10
12/10/85	2.41	3.21	4.03	3.13	3.99	3.00	2.15	2.06	5.09	3.23
12/11/85	2.38	3.19	4.05	3.16	4.01	3.02	2.12	1.99	5.11	3.25
12/12/85	2.36	3.17	4.05	3.15	4.00	3.01	2.10	1.96	5.12	3.25
12/13/85	2.34	3.16	4.03	3.13	3.99	3.00	2.07	1.92	5.15	3.23
12/14/85	2.35	3.16	4.05	3.15	4.00	3.01	2.06	1.90	5.16	3.24
12/15/85	2.34	3.17	4.07	3.15	4.01	3.02	2.05	1.87	5.17	3.24
12/16/85	2.33	3.16	4.06	3.15	4.00	3.01	2.05	1.84	5.17	3.24
12/17/85	2.35	3.17	4.07	3.21	4.03	3.04	2.08	1.86	5.15	3.30
12/18/85	2.34	3.17	4.07	3.20	4.05	3.06	2.09	1.85	5.13	3.29
12/19/85	2.33	3.16	4.05	3.16	4.04	3.06	2.07	1.83	5.10	3.25
12/20/85	2.31	3.14	4.03	3.13	4.01	3.03	2.05	1.80	5.06	3.21
12/21/85	2.29	3.12	4.00	3.10	3.99	2.99	2.02	1.78	5.04	3.17
12/22/85	2.26	3.12	3.98	3.09	3.97	2.97	2.00	1.77	5.02	3.16
12/23/85	2.24	3.11	3.95	3.06	3.94	2.94	2.00	1.75	4.99	3.13
12/24/85	2.25	3.11	3.96	3.09	3.94	2.95	2.02	1.74	4.98	3.17
12/25/85	2.36	3.15	4.08	3.40	4.07	3.15	2.10	1.74	5.05	3.49
12/26/85	2.34	3.14	4.09	3.35	4.09	3.19	2.09	1.72	5.05	3.43
12/27/85	2.31	3.08	4.04	3.29	4.03	3.11	2.06	1.71	5.02	3.37
12/28/85	2.32	3.11	4.06	3.28	4.06	3.12	2.07	1.73	5.03	3.37
12/29/85	2.35	3.14	4.13	3.34	4.12	3.17	2.12	1.76	5.09	3.42
12/30/85	2.33	3.15	4.14	3.32	4.13	3.18	2.12	1.74	5.06	3.40
12/31/85	2.30	3.14	4.11	3.28	4.10	3.15	2.10	1.71	5.02	3.36
1/ 1/86	2.29	3.14	4.09	3.26	4.07	3.13	2.09	1.70	5.01	3.33
1/ 2/86	2.27	3.13	4.07	3.22	4.05	3.10	2.07	1.69	5.00	3.31
1/ 3/86	2.25	3.11	4.04	3.20	4.03	3.07	2.06	1.68	4.98	3.28
1/ 4/86	2.23	3.08	4.01	3.16	4.00	3.04	2.05	1.67	4.96	3.25
1/ 5/86	2.23	3.08	3.99	3.14	3.98	3.02	2.04	1.67	4.95	3.22
1/ 6/86	2.21	3.06	3.97	3.11	3.97	2.99	2.01	1.65	4.95	3.18
1/ 7/86	2.22	3.04	3.95	3.18	3.94	3.03	2.04	1.66	4.93	3.25
1/ 8/86	2.28	3.06	4.02	3.47	4.02	3.26	2.07	1.66	4.98	3.56
1/ 9/86	2.53	3.10	4.30	3.19	4.29	3.12	2.20	1.74	5.20	3.31
1/10/86	2.39	3.23	4.39	3.23	4.32	3.19	2.50	2.20	4.94	3.33
1/11/86	2.48	3.34	4.27	3.22	4.17	2.98	2.56	2.35	4.94 P	3.32
1/12/86	2.43	3.41	3.95	3.09	3.85	2.83	2.58	2.37	5.23	3.19
1/13/86	2.40	3.47	4.16	3.08	4.10	3.06	2.62	2.30	5.12	3.16
1/14/86	2.29	3.49	4.26	3.13	4.22	3.21	2.57	2.27	5.06	3.20
1/15/86	2.27	3.46	4.23	3.26	4.18	3.18	2.51	2.25	5.01	3.33
1/16/86	2.42	3.45	4.25 P	3.32	4.20 P	3.12	2.45	2.16	5.05	3.40
1/17/86	2.47	3.41	4.34	3.25	4.31	3.23 E	2.40	1.98	5.20	3.33
1/18/86	2.43	3.38	4.34	3.37	4.31	3.34	2.35	1.91	5.21	3.44

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
1/19/86	2.43	3.37	4.34	3.41	4.31	3.37	2.34	1.89	5.21	3.49
1/20/86	2.42	3.34	4.32	3.39	4.30	3.36	2.29	1.86	5.22	3.46
1/21/86	2.40	3.29	4.29	3.33	4.28	3.30	2.25	1.83	5.20	3.39
1/22/86	2.39	3.25	4.26	3.28	4.26	3.25	2.22	1.81	5.16	3.35
1/23/86	2.38	3.23	4.23	3.26	4.23	3.22	2.20	1.79	5.14	3.33
1/24/86	2.36	3.18	4.20	3.26	4.21	3.21	2.18	1.77	5.10	3.33
1/25/86	2.34	3.15	4.16	3.28	4.18	3.19	2.15	1.75	5.08	3.34
1/26/86	2.32	3.14	4.13	3.29	4.15	3.18	2.14	1.74	5.05	3.33
1/27/86	2.31	3.11	4.12	3.26	4.13	3.16	2.12	1.72	5.03	3.31
1/28/86	2.28	3.02	4.08	3.19	4.10	3.12	2.11	1.70	5.00	3.26
1/29/86	2.24	2.79	3.97	3.10	3.97	2.94	2.06	1.67	4.94	3.17
1/30/86	2.23	2.87	3.99	3.08	3.99	3.02	2.06	1.65	4.93	3.15
1/31/86	2.21	2.90	3.99	3.08	3.97	3.02	2.02	1.63	4.90	3.13
2/ 1/86	2.20	2.90	3.96	3.05	3.96	3.00	1.99	1.61	4.87	3.11
2/ 2/86	2.18	2.87	3.94	3.04	3.92	2.99	1.98	1.60	4.86	3.09
2/ 3/86	2.16	2.84	3.90	3.02	3.89	2.96	1.96	1.61	4.83	3.10
2/ 4/86	2.13	2.82	3.87	2.98	3.86	2.91	1.94	1.59	4.79	3.06
2/ 5/86	2.10	2.82	3.83	2.94	3.82	2.86	1.91	1.58	4.75	3.01
2/ 6/86	2.08	2.81	3.80	2.91	3.78	2.82	1.91	1.56	4.71	2.96
2/ 7/86	2.06	2.80	3.78	2.88	3.76	2.80	1.90	1.55	4.73	2.94
2/ 8/86	2.04	2.78	3.76	2.86	3.74	2.78	1.88	1.53	4.80	2.91
2/ 9/86	2.02	2.77	3.75	2.84	3.73	2.77	1.86	1.51	4.79	2.88
2/10/86	2.00	2.74	3.74	2.80	3.73	2.73	1.84	1.50	4.74	2.83
2/11/86	2.02	2.72	3.75	2.77	3.73	2.69	1.84	1.49	4.71	2.81
2/12/86	2.16	2.69	3.77	2.81	3.75	2.75	1.91	1.54	4.72	2.85
2/13/86	2.14	2.69	3.77	2.80	3.75	2.76	1.89	1.54	4.70	2.85
2/14/86	2.09	2.67	3.72	2.76	3.70	2.72	1.85	1.52	4.66	2.80
2/15/86	2.06	2.67	3.69	2.73	3.68	2.70	1.85	1.53	4.64	2.81
2/16/86	2.03	2.66	3.67	2.70	3.66	2.68	1.83	1.50	4.60	2.78
2/17/86	2.00	2.65	3.63	2.66	3.62	2.64	1.81	1.49	4.56	2.75
2/18/86	2.09	2.70	3.68	2.88	3.67	2.74	1.90	1.52	4.79	2.95
2/19/86	2.17	2.74	3.84	3.10	3.83	2.95	2.00	1.55	4.99	3.17
2/20/86	2.15	2.80	3.86	3.05	3.85	2.97	2.03	1.53	4.97	3.12
2/21/86	2.12	2.86	3.85	3.01	3.84	2.93	2.03	1.54	4.93	3.08
2/22/86	2.10	2.90	3.83	2.97	3.82	2.90	2.02	1.54	4.89	3.04
2/23/86	2.07	2.95	3.79	2.94	3.78	2.87	2.02	1.53	4.83	3.01
2/24/86	2.03	2.99	3.76	2.90	3.76	2.84	2.02	1.55	4.79	2.97
2/25/86	1.97	3.00	3.72	2.85	3.72	2.79	2.00	1.59	4.74	2.90
2/26/86	1.91	2.98	3.67	2.78	3.66	2.72	1.97	1.58	4.70	2.83
2/27/86	1.85	2.97	3.61	2.77	3.60	2.71	1.96	1.58	4.57	2.82
2/28/86	1.81	2.97	3.58	2.80	3.56	2.75	1.93	1.58	4.44	2.86
3/ 1/86	1.86	2.99	3.57	2.85	3.56	2.80	1.95	1.59	4.41	2.91
3/ 2/86	1.85	2.94	3.55	2.82	3.53	2.77	1.92	1.52	4.34	2.88
3/ 3/86	1.81	2.82	3.52	2.76	3.50	2.67	1.89	1.49	4.35	2.83
3/ 4/86	1.80	2.87	3.62	2.78	3.61	2.73	1.87	1.47	4.43	2.85
3/ 5/86	1.81	2.92	3.69	2.83	3.68	2.78	1.89	1.46	4.51	2.91
3/ 6/86	1.79	2.93	3.70	2.84	3.69	2.81	1.88	1.45	4.49	2.91
3/ 7/86	1.76	2.95	3.71	2.85	3.70	2.81	1.88	1.42	4.46	2.92

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/ 8/86	1.74	2.94	3.69	2.84	3.68	2.81	1.86	1.40	4.48	2.92
3/ 9/86	1.72	2.93	3.67	2.84	3.66	2.81	1.85	1.37	4.46	2.91
3/10/86	1.86	3.02	3.77	3.00	3.76	3.05	2.00	1.38	4.71	3.11
3/11/86	2.05	3.15	4.18	2.84	4.17	3.06	2.23	1.38	5.03	2.95
3/12/86	2.06	3.23	4.32	3.20	4.31	3.23	2.19	1.36	4.99	3.29
3/13/86	2.09	3.27	4.26	3.37	4.25	3.24	2.16	1.37	5.08	3.45
3/14/86	2.07	3.34	4.27	3.23	4.27	3.34	2.14	1.38	5.07	3.31
3/15/86	2.07	3.39	4.21	3.12	4.21	3.28	2.15	1.37	5.03	3.20
3/16/86	2.20	3.42	4.18	3.17	4.18	3.32	2.29	1.38	5.02	3.25
3/17/86	2.21	3.45	4.18	3.32	4.19	3.38	2.26	1.38	5.00	3.39
3/18/86	2.35	3.47	4.20	3.37	4.20	3.29	2.27	1.37	5.01	3.45
3/19/86	2.35	3.49	4.15	3.23	4.15	3.11	2.26	1.35	4.96	3.28
3/20/86	2.22	3.51	4.10	3.32	4.10	3.22	2.26	1.34	4.92	3.36
3/21/86	2.25	3.55	4.20	3.35	4.19	3.34	2.31	1.39	5.02	3.41
3/22/86	2.26	3.57	4.25	3.11	4.25	3.35	2.30	1.40	5.07	3.16
3/23/86	2.23	3.57	4.20	2.98	4.19	3.24	2.23	1.38	5.02	3.03
3/24/86	2.20	3.56	4.14	3.06	4.13	3.15	2.20	1.38	4.97	3.11
3/25/86	2.15	3.54	4.09	3.22	4.09	3.15	2.20	1.41	4.91	3.27
3/26/86	2.23	3.65	4.25	3.41	4.22	3.02	2.61	1.82	5.27	3.51
3/27/86	2.26	3.87	4.45	3.10	4.37	2.68	2.88	2.17	5.32	3.19
3/28/86	2.30	4.15	4.56	2.99	4.43	2.73	2.95	2.23	5.16	3.07
3/29/86	2.32	4.33	4.53	2.89	4.40	2.72	2.90	2.24	4.82	2.97
3/30/86	2.33	4.45	4.51	2.86	4.38	2.70	2.87	2.24	4.67	2.92
3/31/86	2.33	4.58	4.41	2.95	4.30	2.71	2.80	2.25	4.65	3.02
4/ 1/86	2.32	4.59	4.18	3.05	4.09	2.67	2.73	2.25	4.58	3.15
4/ 2/86	2.32	4.54	4.09	3.07	4.01	2.63	2.65	2.25	4.51	3.16
4/ 3/86	2.32	4.49	4.15	3.10	4.08	2.62	2.58	2.24	3.92	3.19
4/ 4/86	2.23	4.40	4.23	3.19	4.17	2.96	2.52	2.16	4.40	3.26
4/ 5/86	2.11	4.23	4.26	3.31	4.24	3.20	2.48	2.07	4.96	3.37
4/ 6/86	2.17	4.13	4.38	3.32	4.37	3.39	2.43	1.84	5.03	3.39
4/ 7/86	2.19	4.06	4.34	3.40	4.33	3.50	2.41	1.73	5.09	3.45
4/ 8/86	2.17	3.98	4.24	3.41	4.23	3.50	2.38	1.68	5.14	3.47
4/ 9/86	2.16	3.91	4.17	3.39	4.17	3.48	2.36	1.65	5.11	3.46
4/10/86	2.14	3.84	4.14	3.35	4.14	3.45	2.31	1.61	5.12	3.41
4/11/86	2.10	3.77	4.19	3.25	4.19	3.23	2.27	1.58	5.10	3.31
4/12/86	2.06	3.71	4.16	3.14	4.16	3.11	2.24	1.56	5.08	3.21
4/13/86	2.24	3.72	4.26	3.31	4.26	3.20	2.37	1.74	5.16	3.38
4/14/86	2.24	3.71	4.32	3.22	4.32	3.17	2.42	1.78	5.22	3.29
4/15/86	2.28	3.68	4.30	3.39	4.30	3.29	2.37	1.63	5.21	3.46
4/16/86	2.26	3.66	4.25	3.38	4.25	3.28	2.32	1.59	5.18	3.44
4/17/86	2.23	3.64	4.21	3.33	4.20	3.24	2.28	1.58	5.17	3.39
4/18/86	2.20	3.60	4.15	3.25	4.15	3.18	2.23	1.55	5.13	3.32
4/19/86	2.17	3.56	4.12	3.19	4.12	3.13	2.19	1.54	5.11	3.27
4/20/86	2.12	3.51	4.07	3.15	4.07	3.08	2.17	1.51	5.09	3.22
4/21/86	2.09	3.49	4.02	3.09	4.02	3.02	2.15	1.51	5.05	3.16
4/22/86	2.07	3.45	3.99	3.04	3.98	2.97	2.13	1.50	5.02	3.12
4/23/86	2.03	3.40	3.94	2.98	3.92	2.93	2.09	1.48	4.98	3.05
4/24/86	1.98	3.35	3.89	2.92	3.87	2.88	2.07	1.47	4.92	2.98

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
4/25/86	1.94	3.30	3.98	2.89	3.96	2.83	2.03	1.45	4.89	2.96
4/26/86	1.90	3.28	4.15	2.99	4.14	2.84	1.99	1.44	4.96	3.05
4/27/86	1.86	3.28	4.17	3.00	4.16	2.85	1.96	1.41	4.98	3.06
4/28/86	1.82	3.25	3.98	3.00	3.94	3.05	1.93	1.39	4.91	3.07
4/29/86	1.79	3.16	3.81	3.14	3.78	3.41	1.90	1.37	4.86	3.20
4/30/86	1.75	3.10	3.81	3.17	3.77	3.46	1.87	1.34	4.87	3.25
5/ 1/86	1.72	3.05	3.77	3.23	3.73	3.58	1.86	1.31	4.83	3.29
5/ 2/86	1.70	3.01	3.76	3.23	3.73	3.58	1.86	1.30	4.80	3.29
5/ 3/86	1.68	2.99	3.76	3.24	3.72	3.59	1.86	1.28	4.78	3.29
5/ 4/86	1.66	3.03	3.79	3.30	3.74	3.62	1.88	1.26	4.81	3.35
5/ 5/86	1.67	3.07	3.86	3.38	3.82	3.69	1.93	1.25	4.86	3.41
5/ 6/86	1.64	3.10	3.88	3.41	3.84	3.71	1.93	1.22	4.82	3.45
5/ 7/86	1.63	3.12	3.89	3.44	3.85	3.75	1.94	1.21	4.79	3.49
5/ 8/86	1.68	3.11	3.92	3.48	3.88	3.76	1.96	1.20	4.80	3.53
5/ 9/86	1.77	3.12	4.09	3.63	4.05	3.92	2.01	1.20	4.90	3.68
5/10/86	1.76	3.10	4.09	3.62	4.05	3.95	2.00	1.20	4.93	3.68
5/11/86	1.72	3.10	4.05	3.58	4.02	3.91	1.99	1.19	4.90	3.64
5/12/86	1.69	3.09	3.99	3.54	3.97	3.87	1.99	1.18	4.83	3.59
5/13/86	1.66	3.06	3.95	3.49	3.92	3.81	1.97	1.16	4.82	3.54
5/14/86	1.64	3.04	3.90	3.43	3.87	3.76	1.93	1.15	4.78	3.49
5/15/86	1.61	3.04	3.88	3.39	3.85	3.73	1.91	1.15	4.74	3.44
5/16/86	1.59	3.03	3.86	3.37	3.84	3.72	1.91	1.16	4.71	3.43
5/17/86	1.57	3.02	3.82	3.35	3.80	3.67	1.90	1.16	4.68	3.40
5/18/86	1.56	3.01	3.76	3.30	3.73	3.62	1.88	1.15	4.68	3.35
5/19/86	1.53	2.99	3.74	3.25	3.71	3.58	1.87	1.14	4.66	3.31
5/20/86	1.54	2.99	3.89	3.62	3.87	3.75	1.89	1.16	4.67	3.68
5/21/86	1.60	3.03 E	4.04	3.79	4.01	3.90	1.95	1.18	4.76	3.84
5/22/86	1.78	3.47	4.42	3.84	4.34	4.09	2.09	1.23	5.14	3.89
5/23/86	2.39	3.91	4.44	3.96	4.36	4.06	2.35	1.39	5.13	4.01
5/24/86	2.49	4.00	4.34	3.99	4.28	4.06	2.45	1.36	4.95	4.05
5/25/86	2.54	4.00	4.21	3.87	4.14	3.95	2.49	1.35	4.83	3.92
5/26/86	2.54	3.95	4.06	3.74	4.01	3.83	2.49	1.33	4.76	3.79
5/27/86	2.54	3.87	3.98	3.62	3.92	3.73	2.47	1.33	4.72	3.68
5/28/86	2.51	3.80	3.95	3.55	3.88	3.68	2.45	1.35	4.74	3.61
5/29/86	2.43	3.73	3.90	3.48	3.84	3.68	2.41	1.38	4.68	3.53
5/30/86	2.18	3.65	3.95	3.46	3.90	3.82	2.35	1.35	4.71	3.51
5/31/86	2.09	3.58	3.92	3.43	3.88	3.81	2.31	1.31	4.73	3.50
6/ 1/86	2.01	3.55	3.86	3.39	3.83	3.74	2.30	1.30	4.71	3.44
6/ 2/86	1.96	3.50	3.86	3.37	3.82	3.73	2.28	1.29	4.68	3.41
6/ 3/86	1.91	3.45	3.90	3.36	3.86	3.76	2.27	1.27	4.70	3.41
6/ 4/86	1.88	3.40	3.84	3.37	3.80	3.72	2.24	1.27	4.63	3.42
6/ 5/86	1.81	3.35	3.75	3.42	3.71	3.65	2.21	1.26	4.55	3.48
6/ 6/86	1.74	3.30	3.70	3.40	3.66	3.58	2.18	1.23	4.47	3.45
6/ 7/86	1.99	3.30	3.86	3.75	3.83	3.75	2.48	1.25	4.49	3.84
6/ 8/86	2.29	3.43	4.05	3.97	4.03	3.96	3.13	1.56	4.80	4.05
6/ 9/86	2.30	3.59	4.13	4.07	4.08	3.92	3.08	1.69	5.14	4.15
6/10/86	2.22	3.66	4.04	3.90	4.02	3.97	2.99	1.59	5.00	3.97
6/11/86	2.24	3.71	4.06	3.91	4.03	4.00	2.92	1.48	4.74	3.98

Table D.1f Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
6/12/86	2.23	3.72	4.02	3.86	3.99	3.97	2.86	1.46	4.66	3.94
6/13/86	2.26	3.71	4.11	4.02	4.07	3.96	2.77	1.49	4.67	4.09
6/14/86	2.22	3.70	4.12	4.16	4.06	3.71	2.75	1.90	4.68	4.24
6/15/86	2.24	3.72	4.20	4.11	4.16	4.02	2.83	1.72	4.74	4.19
6/16/86	2.25	3.76	4.23	4.10	4.18	3.96	3.06	1.85	4.84	4.19
6/17/86	2.27	3.82	4.16	4.07	4.08	3.77	3.19	2.06	4.85	4.14
6/18/86	2.29	3.87	4.07	3.96	4.00	3.74	3.16	2.05	4.86	4.03
6/19/86	2.38	3.90	4.22	4.06	4.18	4.09	3.08	1.80	4.90	4.14
6/20/86	2.41	4.04	4.20	3.99	4.10	3.30	3.21	2.14	5.11	4.11
6/21/86	2.53	4.14	4.13	3.88	4.01	2.97	3.35	2.27	4.92	3.99
6/22/86	2.56	4.32	4.44	4.22	4.31	3.12	3.61	2.41	4.68	4.34
6/23/86	2.60	4.44	4.51	4.14	4.40	3.23	3.54	2.43	4.78	4.29
6/24/86	2.56	4.48	4.32	3.74	4.24	3.19	3.71	2.30	5.11	3.90
6/25/86	2.48	4.61	4.35	3.70	4.26	3.07	3.63	2.25	4.39	3.83
6/26/86	2.38	4.69	4.52	3.81	4.44	3.72	3.48	2.28	4.31 E	3.96
6/27/86	2.52	4.72	4.53	3.96	4.44	3.53	3.40	2.40	4.46 E	4.11
6/28/86	2.60	4.71	4.34	3.83	4.23	3.07	3.52	2.47	4.41 E	3.95
6/29/86	2.60	4.72	4.32	3.77	4.21	3.05	3.63	2.48	4.42 E	3.89
6/30/86	2.59	4.78	4.24	3.67	4.15	3.01	3.47	2.48	4.46 E	3.78
7/ 1/86	2.57	4.78	4.17	3.61	4.09	2.95	3.32	2.47	4.42	3.71
7/ 2/86	2.58	4.78	4.16	3.64	4.07	2.94	3.24	2.49	4.43	3.74
7/ 3/86	2.47	4.74	4.25	3.64	4.21	3.67	3.19	2.42	4.53	3.73
7/ 4/86	2.46	4.74	4.31	3.69	4.25	3.78	3.14	2.41	4.64	3.80
7/ 5/86	2.45	4.73	4.28	3.68	4.22	3.73	3.07	2.39	4.77	3.79
7/ 6/86	2.45	4.70	4.29	3.70	4.23	3.74	3.03	2.39	4.74	3.80
7/ 7/86	2.44	4.66	4.25	3.69	4.20	3.73	3.00	2.38	4.73	3.79
7/ 8/86	2.44	4.62	4.20	3.66	4.18	3.70	2.96	2.37 E	4.72	3.77
7/ 9/86	2.43	4.58 E	4.29	3.75	4.24	3.75	2.93	2.36	4.84	3.86
7/10/86	2.44	4.59	4.38	3.84 E	4.35	3.87	2.91	2.36	4.96	3.95
7/11/86	2.43	4.56	4.29	3.74	4.27	3.80	2.90	2.35	4.86	3.86
7/12/86	2.44	4.52	4.21	3.68	4.18	3.70	2.88	2.35	4.79	3.80
7/13/86	2.42	4.49	4.15	3.64	4.13	3.67	2.85	2.35	4.73	3.75
7/14/86	2.34	4.45	4.22	3.66	4.22	3.91	2.82	2.28	4.69	3.77
7/15/86	2.37	4.40	4.12	3.61	4.11	3.70	2.78	2.31	4.61	3.72
7/16/86	2.34	4.34	4.07	3.58	4.06	3.71	2.74	2.28	4.52	3.67
7/17/86	2.32	4.19	4.26	3.67	4.26	4.11	2.71	2.11	5.12	3.74
7/18/86	2.35	4.14	4.34	3.82	4.30	3.99	2.68	2.12	5.05	3.86
7/19/86	2.20	4.08	4.33	3.86	4.30	3.97	2.66	2.16	5.10	3.90
7/20/86	2.22	4.05	4.32	3.84	4.30	3.80	2.66	2.18	5.16	3.87
7/21/86	2.26	4.04	4.40	3.92	4.37	4.12	2.66	2.05	5.14	3.95
7/22/86	2.20	4.01	4.36	3.88	4.33	3.96	2.65	2.14	5.10	3.92
7/23/86	2.21	3.99	4.36	3.93	4.30	3.96	2.65	2.16	5.18	3.97
7/24/86	2.38	4.02	4.30	3.96	4.24	3.54	2.74	2.30	4.96 P	4.05
7/25/86	2.40	4.12	4.35	3.93	4.29	3.59	2.88	2.31	4.86	4.00
7/26/86	2.38	4.16	4.41	4.26	4.33	3.81	2.92	2.31	5.33	4.31
7/27/86	2.38	4.14	4.31	4.23	4.24	3.72	2.84	2.31	5.46	4.29
7/28/86	2.45	4.15	4.16	3.83	4.09	3.23	2.82	2.37	5.04 E	3.92
7/29/86	2.53	4.25	4.00	3.52	3.95	2.82	2.79	2.42	4.49 E	3.62

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/30/86	2.51	4.22	3.86	3.42	3.82	2.75	2.72	2.42	4.51	3.53
7/31/86	2.49	4.16	3.79	3.40	3.74	2.70	2.65	2.42	4.44	3.51
8/ 1/86	2.48	4.08	3.74	3.38	3.70	2.67	2.60	2.41	4.45	3.48
8/ 2/86	2.48	4.01	3.68	3.34	3.64	2.66	2.56	2.40	4.44	3.45
8/ 3/86	2.47	3.95	3.62	3.30	3.59	2.64	2.52	2.38	4.43	3.41
8/ 4/86	2.49	3.91	3.81	3.48	3.77	2.74	2.53	2.42	4.48	3.60
8/ 5/86	2.58	3.97	3.99	3.65	3.96	2.88	2.60	2.48	4.53	3.77
8/ 6/86	2.57	3.96	3.84	3.50	3.82	2.81	2.64	2.48	4.45	3.62 E
8/ 7/86	2.57	3.92	3.74	3.44	3.72	2.78	2.64	2.48	4.44	3.54
8/ 8/86	2.55	3.85	3.72	3.36	3.71	2.72	2.62	2.47	4.50	3.45
8/ 9/86	2.31	3.75	4.22	3.44	4.27	3.11	2.60	2.26	5.09	3.50
8/10/86	2.22	3.71	4.25	3.48	4.30	3.26	2.57	2.17	5.22	3.53
8/11/86	2.36	3.77	3.99	3.42	3.99	2.95	2.61	2.31	4.81	3.50
8/12/86	2.49	3.84	3.79	3.37	3.76	2.71	2.62	2.43	4.41	3.46
8/13/86	2.50	3.82	3.70	3.34	3.68	2.69	2.61	2.44	4.47	3.42
8/14/86	2.50	3.80	3.66	3.33	3.64	2.69	2.61	2.44	4.43	3.41
8/15/86	2.50	3.80	3.63	3.31	3.60	2.68	2.66	2.46	4.41	3.38
8/16/86	2.54	3.96	3.72	3.43	3.70	2.76	2.75	2.48	4.44 E	3.50
8/17/86	2.67	4.57	4.15	3.75	4.12	2.97	3.01	2.60	4.47 E	3.85
8/18/86	2.70	4.90	4.24	3.77	4.22	3.01	3.35	2.63	4.87	3.87
8/19/86	2.68	5.08	4.21	3.76	4.19	3.00	3.42	2.56	5.06	3.86
8/20/86	2.55	5.01	4.14	3.70	4.12	2.89	3.31	2.36	5.05	3.81
8/21/86	2.49	4.86	4.06	3.64	4.04	2.82	3.21	2.32	4.99	3.74
8/22/86	2.48	4.74	4.04	3.63	4.02	2.81	3.17	2.30	4.93	3.74
8/23/86	2.43	4.61	3.95	3.55	3.94	2.75	3.08	2.27	4.87	3.65
8/24/86	2.40	4.49	3.91	3.54	3.89	2.69	3.00	2.25	4.82	3.65
8/25/86	2.37	4.41	3.94	3.52	3.92	2.67	2.92	2.23	4.55 E	3.63
8/26/86	2.35	4.33	3.92	3.51	3.91	2.66	2.86	2.20	4.56 E	3.63
8/27/86	2.32	4.19	3.83	3.46	3.81	2.62	2.81	2.16	4.71	3.56
8/28/86	2.28	4.10	3.78	3.42	3.75	2.57	2.77	2.14	4.71	3.53
8/29/86	2.25	4.00	3.73	3.37	3.70	2.54	2.73	2.13	4.73	3.48
8/30/86	2.24	3.90	3.69	3.35	3.66	2.53	2.68	2.12	4.62	3.44
8/31/86	2.29	3.82	3.76	3.46	3.70	2.59	2.74	2.17	4.55	3.55
9/ 1/86	2.28	3.75	3.72	3.40	3.67	2.57	2.69	2.17	4.49	3.50
9/ 2/86	2.23	3.68	4.01	3.46	3.96	3.26	2.64	2.18	4.42	3.53
9/ 3/86	2.19	3.62	4.39	3.97	4.40	4.21	2.60	2.18	4.45	4.03
9/ 4/86	2.34	3.57	4.47	4.36	4.45	4.02	2.62	2.34	4.41	4.42
9/ 5/86	2.59	3.59	4.54	4.41	4.49	3.71	2.80	2.54	4.40	4.49
9/ 6/86	2.58	3.65	4.31	4.13	4.28	3.58	2.87	2.55	4.41	4.20
9/ 7/86	2.60	3.84	4.40	4.15	4.37	3.65	3.17	2.57	4.52	4.22
9/ 8/86	2.66	4.00	4.56	4.09	4.52	3.41	3.41	2.57	4.67	4.20
9/ 9/86	2.59	4.20	4.37	3.86	4.32	3.09	3.53	2.44	4.74	3.98
9/10/86	2.54	4.18	4.17	3.72	4.13	2.91	3.43	2.39	4.70	3.83
9/11/86	2.49	4.10	4.04	3.61	3.98	2.83	3.30	2.35	4.65	3.71
9/12/86	2.51	4.00	3.95	3.54	3.90	2.80	3.17	2.45	4.58	3.64
9/13/86	2.59	3.88	3.91	3.50	3.85	2.83	3.05	2.55	4.52	3.61
9/14/86	2.60	3.78	3.87	3.46	3.81	2.83	2.96	2.56	4.44	3.59
9/15/86	2.60	3.68	3.82	3.43	3.76	2.82	2.86	2.56	4.40	3.55

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
9/16/86	2.51	3.58	3.85	3.45	3.82	3.23	2.81	2.48	4.38	3.56
9/17/86	2.51	3.51	3.89	3.51	3.87	3.38	2.79	2.49	4.39	3.62
9/18/86	2.53	3.46	3.88	3.52	3.85	3.36	2.79	2.51	4.37	3.61
9/19/86	2.44	3.38	4.16	3.58	4.15	3.43	2.75	2.43	4.79	3.66
9/20/86	2.32	3.33	4.41	3.52	4.42	3.44	2.71	2.33	5.11	3.59
9/21/86	2.30	3.40	4.44	3.74	4.43	3.96	3.29	2.31	5.23	3.81
9/22/86	2.39	3.42	4.32	3.93	4.28	3.93	3.26	2.40	5.25	3.99
9/23/86	2.45	3.45	4.28	3.86	4.25	3.84	3.27	2.44	5.20	3.91
9/24/86	2.50	3.43	4.22	3.80	4.17	3.73	3.21	2.47	5.16	3.86
9/25/86	2.49	3.40	4.22	3.72	4.17	3.71	3.11	2.46	5.14	3.78
9/26/86	2.39	3.37	4.33	3.75	4.29	3.91	3.01	2.38	5.14	3.82
9/27/86	2.37	3.35	4.37	3.69	4.35	3.87	2.92	2.36	5.15	3.77
9/28/86	2.34	3.31	4.33	3.72	4.29	3.96	2.86	2.34	5.16	3.80
9/29/86	2.35	3.32	4.32	3.70	4.30	4.07	2.80	2.23	5.28	3.78
9/30/86	2.49	3.40	4.22	3.80	4.20	4.13	2.77	2.14	5.41	3.88
10/ 1/86	2.47	3.44	4.27	3.79	4.23	3.98	2.74	2.21	5.26	3.86
10/ 2/86	2.25	3.44	4.37	3.66	4.34	4.07	2.71	2.25	5.20	3.75
10/ 3/86	2.21	3.42	4.35	3.68	4.32	4.22	2.67	2.20	5.18	3.76
10/ 4/86	2.23	3.41	4.33	3.62	4.30	4.01	2.66	2.22	5.13	3.69
10/ 5/86	2.18	3.39	4.43	3.59	4.42	3.92	2.64	2.18	5.14	3.66
10/ 6/86	2.21	3.39	4.36	3.58	4.35	3.90	2.62	2.10	5.22	3.65
10/ 7/86	2.31	3.43	4.19	3.51	4.20	3.82	2.60	2.01	5.31	3.59
10/ 8/86	2.32	3.48	4.13	3.45	4.15	3.77	2.57	1.95	5.31	3.53
10/ 9/86	2.32	3.48	4.14	3.38	4.16	3.64	2.54	1.90	5.30	3.46
10/10/86	2.31	3.48	4.25	3.28	4.26	3.36	2.53	1.87	5.31	3.35
10/11/86	2.30	3.46	4.28	3.32	4.28	3.26	2.50	1.85	5.33	3.40
10/12/86	2.29	3.44	4.28	3.37	4.29	3.25	2.47	1.82	5.34	3.44
10/13/86	2.27	3.43	4.26	3.19	4.27	3.19	2.45	1.80	5.33	3.26
10/14/86	2.26	3.40	4.22	3.02	4.23	3.09	2.45	1.78	5.32	3.09
10/15/86	2.34	3.39	4.22	3.20	4.23	3.12	2.46	1.78	5.32	3.28
10/16/86	2.47	3.38	4.36	3.69	4.37	3.42	2.47	1.80	5.40	3.76
10/17/86	2.47	3.34	4.29	3.38	4.29	3.26	2.39	1.87	5.40	3.44
10/18/86	2.23	3.31	4.20	3.31	4.20	3.33	2.33	1.94	5.38	3.39
10/19/86	2.21	3.30	4.19	3.37	4.18	3.38	2.44	1.97	5.37	3.45
10/20/86	2.21	3.29	4.18	3.47	4.17	3.43	2.43	1.99	5.35	3.55
10/21/86	2.16	3.25	4.15	3.27	4.13	3.36	2.38	1.96	5.31	3.35
10/22/86	2.12	3.22	4.13	3.20	4.13	3.26	2.32	1.95	5.28	3.28
10/23/86	2.14	3.18	4.16	3.11	4.16	3.11	2.26	1.89	5.26	3.19
10/24/86	2.18	3.14	4.13	3.04	4.13	3.03	2.22	1.83	5.23	3.12
10/25/86	2.18	3.12	4.09	2.98	4.09	2.97	2.17	1.81	5.20	3.05
10/26/86	2.17	3.07	4.06	2.93	4.08	2.93	2.11	1.77	5.19	3.01
10/27/86	2.14	3.03	4.03	3.00	4.05	2.90	2.06	1.75	5.17	3.06
10/28/86	2.14	2.99	4.07	2.93	4.09	2.87	2.01	1.74	5.19	3.00
10/29/86	2.18	2.98	4.24	3.36	4.25	3.20	2.00	1.72	5.14	3.44
10/30/86	2.54	2.98	4.16	3.37	4.15	3.21	2.00	1.71	5.01	3.45
10/31/86	2.41	2.96	4.27	3.20	4.27	3.25	2.00	1.70	4.96	3.28
11/ 1/86	2.23	2.95	4.32	3.20	4.33	3.17	2.00	1.84	4.95	3.27
11/ 2/86	2.04	2.94	4.38	3.25	4.40	3.21	2.00	1.85	4.96	3.32

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
11/ 3/86	2.04	2.93	4.33	3.27	4.35	3.18	2.00	1.80	5.03	3.33
11/ 4/86	2.10	2.97	4.23	3.26	4.25	3.09	2.05	1.73	5.10	3.33
11/ 5/86	2.11	3.04	4.20	3.22	4.22	3.07	2.13	1.70	5.11	3.30
11/ 6/86	2.10	3.05	4.18	3.18	4.20	3.07	2.19	1.70	5.12	3.26
11/ 7/86	2.10	3.06	4.14	3.18	4.16	3.06	2.17	1.68	5.11	3.27
11/ 8/86	2.10	3.09	4.09	3.21	4.11	3.05	2.13	1.68	5.10	3.30
11/ 9/86	2.14	3.09	4.08	3.21	4.09	3.05	2.11	1.68	5.10	3.30
11/10/86	2.13	3.05	4.13	3.14	4.15	3.05	2.09	1.67	5.09	3.22
11/11/86	2.11	3.03	4.18	3.05	4.20	2.98	2.06	1.66	5.08	3.13
11/12/86	2.09	3.03	4.16	3.05	4.18	3.00	2.05	1.66	5.02	3.13
11/13/86	2.08	3.02	4.14	3.13	4.17	3.11	2.07	1.69	4.94	3.22
11/14/86	2.10	3.01	4.19	3.20	4.22	3.16	2.07	1.69	5.01	3.29
11/15/86	2.20	3.01	4.27	3.30	4.30	3.27	2.11	1.71	5.12	3.38
11/16/86	2.19	3.00	4.32	3.41	4.35	3.32	2.11	1.69	5.18	3.48
11/17/86	2.14	2.99	4.30	3.36	4.33	3.35	2.11	1.74	5.15	3.44
11/18/86	2.12	2.96	4.26	3.32	4.28	3.36	2.10	1.81	5.18	3.39
11/19/86	2.11	2.94	4.27	3.34	4.29	3.34	2.09	1.82	5.18	3.42
11/20/86	2.10	2.92	4.25	3.31	4.26	3.34	2.07	1.82	5.15	3.39
11/21/86	2.11	2.90	4.24	3.20	4.25	3.31	2.06	1.82	5.14	3.29
11/22/86	2.25	2.93	4.15	3.18	4.14	3.26	2.17	1.89	5.22	3.28
11/23/86	2.51	3.03	3.86	3.17	3.79	3.11	2.37	2.06	5.33	3.26
11/24/86	2.40	3.03	4.05	3.10	4.03	3.09	2.34	2.06	5.26	3.19
11/25/86	2.43	3.05	4.21	3.13	4.20	3.27	2.29	1.92	5.25	3.22
11/26/86	2.45	3.03	4.14	3.11	4.13	3.14	2.24	1.98	5.21	3.19
11/27/86	2.30	3.02	4.33	3.10	4.33	3.22	2.21	1.92	5.22	3.18
11/28/86	2.21	3.01	4.40	3.16	4.41	3.31	2.20	1.88	5.22	3.23
11/29/86	2.54	3.05	4.37	3.50	4.30	3.25	2.49	2.15	4.92	3.57
11/30/86	2.42	3.08	4.02	3.36	3.94	2.88	2.52	2.25	4.91	3.42
12/ 1/86	2.39	3.12	3.95	3.36	3.88	3.13	2.53	2.11	4.95	3.43
12/ 2/86	2.43	3.16	3.98	3.49	3.92	3.30	2.58	2.23	4.98	3.57
12/ 3/86	2.38	3.15	4.17	3.42	4.17	3.31	2.54	2.16	5.11	3.50
12/ 4/86	2.36	3.12	4.40	3.41	4.42	3.38	2.47	1.96	5.29	3.48
12/ 5/86	2.34	3.10	4.42	3.41	4.42	3.38	2.43	1.92	5.31	3.46
12/ 6/86	2.34	3.08	4.43	3.39	4.44	3.36	2.41	1.90	5.31	3.46
12/ 7/86	2.32	3.09	4.32	3.37	4.33	3.29	2.41	1.94	5.33	3.44
12/ 8/86	2.18	3.06	4.32	3.34	4.35	3.36	2.37	1.95	5.27	3.40
12/ 9/86	2.25	3.02	4.28	3.37	4.31	3.40	2.33	1.86	5.27	3.42
12/10/86	2.24	2.99	4.23	3.34	4.26	3.39	2.29	1.83	5.25	3.41
12/11/86	2.25	3.05	4.19	3.31	4.22	3.36	2.25	1.80	5.26	3.39
12/12/86	2.24	3.04	4.16	3.29	4.20	3.35	2.23	1.77	5.27	3.37
12/13/86	2.24	2.88	4.14	3.28	4.18	3.34	2.19	1.76	5.26	3.36
12/14/86	2.23	2.83	4.11	3.25	4.15	3.32	2.17	1.74	5.23	3.33
12/15/86	2.22	3.01	4.15	3.21	4.19	3.23	2.16	1.73	5.23	3.28
12/16/86	2.21	3.33	4.23	3.15	4.28	3.17	2.15	1.72	5.21	3.22
12/17/86	2.20	3.39	4.18	3.14	4.22	3.22	2.12	1.70	5.19	3.21
12/18/86	2.18	3.39	4.16	3.13	4.21	3.21	2.10	1.70	5.23	3.20
12/19/86	2.15	3.37	4.15	3.11	4.20	3.18	2.09	1.69	5.21	3.18
12/20/86	2.13	3.35	4.13	3.10	4.19	3.16	2.07	1.67	5.19	3.16

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
12/21/86	2.12	3.33	4.12	3.08	4.17	3.16	2.06	1.66	5.17	3.14
12/22/86	2.09	3.30	4.10	3.04	4.14	3.13	2.04	1.65	5.12	3.11
12/23/86	2.07	3.27	4.14	3.02	4.17	3.01	2.04	1.63	5.08	3.08
12/24/86	2.24	3.32	4.24	3.28	4.28	3.12	2.16	1.76	5.12	3.35
12/25/86	2.36	3.36	4.36	3.08	4.39	3.22	2.29	1.84	4.98	3.15
12/26/86	2.35	3.38	4.04	2.99	4.02	2.96	2.30	1.96	5.08	3.05
12/27/86	2.31	3.30	3.53	2.91	3.53	2.80	2.29	2.12	5.36	2.96
12/28/86	2.33	3.31	3.89	3.05	3.94	3.15	2.33	1.93	5.51	3.10
12/29/86	2.23	3.33	3.93	3.13	3.97	3.18	2.32	1.94	5.49	3.18
12/30/86	2.19	3.32	3.91	3.29	3.94	3.20	2.29	1.93	5.49	3.34
12/31/86	2.16	3.31	3.89	3.25	3.93	3.20	2.31	1.94	5.49	3.31
1/ 1/87	2.39	3.46	4.12	3.30	4.06	3.08	2.76	2.31	5.34	3.38
1/ 2/87	2.47	3.55	4.14	3.03	4.07	2.78	2.70	2.37	4.65	3.09
1/ 3/87	2.48	3.65	4.25	3.03	4.18	2.77	2.61	2.38	4.27	3.08
1/ 4/87	2.48	3.71	4.14	3.05	4.06	2.77	2.61	2.38	4.25	3.12
1/ 5/87	2.51	3.78	4.19	3.08	4.12	2.79	2.70	2.43	4.22	3.13
1/ 6/87	2.50	3.79	4.11	3.08	4.04	2.76	2.63	2.42	4.15	3.14
1/ 7/87	2.41	3.77	4.20	3.17	4.20	2.99	2.56	2.31 E	4.42	3.23
1/ 8/87	2.46	3.72	4.29	3.41	4.32	3.34	2.51	2.06 E	4.72	3.47
1/ 9/87	2.51	3.68	4.25	3.48	4.30	3.36	2.46	1.97 E	4.78	3.54
1/10/87	2.61	3.64	4.20	3.35	4.25	3.12	2.42	1.95 E	4.77	3.41
1/11/87	2.44	3.61	4.18	3.27	4.22	3.10	2.38	2.03 E	4.78	3.34
1/12/87	2.40	3.56	4.13	3.32	4.18	3.27	2.32	1.94 E	4.76	3.38
1/13/87	2.38	3.48	4.09	3.36	4.14	3.27	2.31	1.90 E	4.78	3.43
1/14/87	2.37	3.45	4.07	3.35	4.12	3.26	2.30	1.88 E	4.78	3.42
1/15/87	2.35	3.43	4.10	3.32	4.15	3.18	2.30	1.88	4.74	3.40
1/16/87	2.34	3.41	4.15	3.29	4.21	3.15	2.29	1.87	4.70	3.38
1/17/87	2.33	3.38	4.19	3.27	4.23	3.14	2.27	1.85	4.74	3.36
1/18/87	2.31	3.36	4.18	3.25	4.22	3.12	2.25	1.83	4.73	3.33
1/19/87	2.30	3.34	4.14	3.22	4.18	3.10	2.23	1.82	4.71	3.30
1/20/87	2.28	3.32	4.12	3.19	4.16	3.07	2.22	1.80	4.70	3.28
1/21/87	2.26	3.29	4.12	3.15	4.17	3.03	2.20	1.79	4.75	3.24
1/22/87	2.26	3.28	4.11	3.18	4.15	3.03	2.20	1.79	4.75	3.25
1/23/87	2.27	3.28	4.17	3.20	4.21	3.09	2.20	1.78	4.87	3.28
1/24/87	2.23	3.18	4.20	3.13	4.25	3.02	2.17	1.76	4.96	3.22
1/25/87	2.21	3.22	4.17	3.13	4.21	3.03	2.16	1.76	5.04	3.21
1/26/87	2.20	3.22	4.21	3.13	4.26	3.07	2.16	1.76	5.01	3.20
1/27/87	2.18	3.15	4.24	3.13	4.28	3.15	2.14	1.74	4.96	3.21
1/28/87	2.15	3.07	4.18	3.12	4.21	3.10	2.11	1.72	4.95	3.19
1/29/87	2.14	3.09	4.20	3.10	4.24	3.12	2.11	1.70	4.94	3.18
1/30/87	2.13	3.10	4.20	3.11	4.23	3.13	2.11	1.68	4.93	3.19
1/31/87	2.13	3.10	4.20	3.12	4.23	3.15	2.11	1.67	4.92	3.20
2/ 1/87	2.10	3.08	4.18	3.10	4.20	3.13	2.10	1.64	4.91	3.17
2/ 2/87	2.08	3.08	4.14	3.08	4.17	3.10	2.10	1.64	4.87	3.15
2/ 3/87	2.07	3.10	4.13	3.05	4.16	3.05	2.10	1.63	4.77	3.13
2/ 4/87	2.05	3.14	4.09	3.00	4.12	2.95	2.08	1.62	4.68	3.08
2/ 5/87	2.03	3.14	3.99	2.99	4.02	2.97	2.08	1.60	4.79	3.06
2/ 6/87	2.03	3.14	3.85	2.95	3.88	2.89	2.08	1.60	4.66	3.01

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
2/ 7/87	2.08	3.14	3.82	2.96	3.84	2.87	2.11	1.65	4.67	3.03
2/ 8/87	2.09	3.13	3.80	2.94	3.83	2.86	2.11	1.67	4.68	3.00
2/ 9/87	2.07	3.10	3.89	2.90	3.91	2.87	2.08	1.64	4.70	2.96
2/10/87	2.01	3.09	4.03	2.91	4.05	2.94	2.05	1.65	4.80	2.98
2/11/87	2.01	3.12	4.05	2.93	4.07	2.95	2.03	1.62	4.77	2.99
2/12/87	1.99	3.15	4.07 E	2.93	4.09	2.94	2.04	1.60	4.74	2.98
2/13/87	1.97	3.15	4.06 E	2.91	4.08	2.94	2.03	1.59	4.73	2.96
2/14/87	1.95	3.14	3.98 E	2.90	4.00	2.94	2.04	1.57	4.75	2.96
2/15/87	1.96	3.15	3.93 E	2.90	3.96	2.94	2.07	1.57	4.77	2.96
2/16/87	1.97	3.16	3.90 E	2.92	3.92	2.93	2.12	1.57	4.75	2.97
2/17/87	1.99	3.19	3.99 E	2.94	4.01	2.98	2.14	1.56	4.76	2.97
2/18/87	1.99	3.20	4.03 E	2.95	4.05	2.99	2.16	1.59	4.75	2.99
2/19/87	1.98	3.20	4.05 E	2.95	4.07	3.01	2.16	1.58	4.73	2.98
2/20/87	1.97	3.17	4.05 E	2.93	4.07	2.97	2.14	1.56	4.71	2.96
2/21/87	1.94	3.15	3.97 E	2.90	3.99	2.95	2.14	1.55	4.75	2.95
2/22/87	1.93	3.14	3.93 E	2.88	3.95	2.94	2.13	1.55	4.75	2.92
2/23/87	1.91	3.13	3.93 E	2.86	3.95	2.93	2.11	1.57	4.71	2.90
2/24/87	1.89	3.10	3.90 E	2.85	3.92	2.92	2.09	1.60	4.72	2.89
2/25/87	1.95	3.08	3.92 E	2.88	3.94	2.94	2.11	1.64	4.79	2.91
2/26/87	2.00	3.06	3.93 E	2.92	3.96	2.99	2.12	1.65	4.80	2.95
2/27/87	1.96	3.04	3.93	2.89	3.95	2.96	2.10	1.65	4.79	2.93
2/28/87	1.93	3.02	3.89	2.87	3.92	2.94	2.08	1.64	4.77	2.90
3/ 1/87	1.96	3.02	3.86	2.83	3.89	2.92	2.08	1.59	4.77	2.87
3/ 2/87	2.11	3.05	3.97	3.00	4.00	3.01	2.17	1.60	4.88	3.03
3/ 3/87	2.22	3.11	4.18	3.24	4.22	3.20	2.30	1.62	4.99	3.29
3/ 4/87	2.16	3.14	4.31	3.27	4.35	3.15	2.33	1.63	5.05	3.31
3/ 5/87	2.14	3.15	4.19	3.22	4.22	3.15	2.33	1.62	4.97	3.27
3/ 6/87	2.13	3.14	3.99	3.17	4.03	3.13	2.32	1.61	4.76	3.23
3/ 7/87	2.35	3.29	4.29	3.42	4.26	3.05	2.68	2.05	4.82	3.49
3/ 8/87	2.40	3.45	4.26	2.97	4.20	2.75	2.75	2.33	4.46	3.02
3/ 9/87	2.38	3.49	4.02	2.86	3.97	2.68	2.65	2.32	4.52	2.91
3/10/87	2.35	3.46	4.09	2.96	4.10	2.83	2.58	2.19	4.80	2.99
3/11/87	2.35	3.45	4.28	3.25	4.32	3.15	2.52	1.91	5.11	3.30
3/12/87	2.33	3.43	4.26	3.33	4.30	3.21	2.48	1.85	5.13	3.38
3/13/87	2.31	3.41	4.23	3.34	4.27	3.21	2.44	1.83	5.09	3.40
3/14/87	2.28	3.36	4.19	3.32	4.22	3.20	2.41	1.80	4.90	3.39
3/15/87	2.25	3.33	4.13	3.29	4.17	3.17	2.39	1.78	4.86	3.35
3/16/87	2.22	3.31	4.07	3.24	4.11	3.13	2.35	1.76	4.82	3.30
3/17/87	2.20	3.25	4.03	3.18	4.06	3.08	2.31	1.73	4.78	3.25
3/18/87	2.17	3.20	4.01	3.12	4.04	3.03	2.28	1.71	4.71	3.20
3/19/87	2.14	3.18	4.01	3.08	4.04	3.00	2.26	1.71	4.61	3.15
3/20/87	2.14	3.16	4.05	3.09	4.08	3.09	2.24	1.70	4.59	3.16
3/21/87	2.11	3.13	4.04	3.09	4.07	3.11	2.22	1.69	4.63	3.17
3/22/87	2.08	3.10	4.00	3.07	4.03	3.10	2.20	1.66	4.64	3.15
3/23/87	2.13	3.09	4.13	3.25	4.15	3.15	2.23	1.69	4.68	3.32
3/24/87	2.36	3.09	4.13	3.23	4.16	3.10	2.33	1.72	4.85	3.32
3/25/87	2.57	3.11	4.04	2.95	4.07	3.00	2.43	1.75	5.04	3.04
3/26/87	2.48	3.09	3.94	2.94	3.96	2.95	2.38	1.75	5.07	3.01

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/27/87	2.34	3.09	3.86	3.19	3.89	3.08	2.34	1.74	5.12	3.24
3/28/87	2.29	3.07	3.81	3.20	3.84	3.08	2.31	1.74	5.11	3.26
3/29/87	2.26	3.05	3.77	3.18	3.80	3.06	2.29	1.73	5.11	3.24
3/30/87	2.22	3.00	3.70	3.11	3.73	3.00	2.26	1.71	5.10	3.17
3/31/87	2.24	3.01	3.80	3.18	3.84	3.06	2.27	1.74	5.16	3.24
4/ 1/87	2.23	3.02	4.00	3.22	4.04	3.07	2.25	1.72	5.09	3.27
4/ 2/87	2.20	3.00	4.00	3.17	4.04	3.04	2.21	1.69	5.04	3.22
4/ 3/87	2.18	2.99	3.95	3.12	3.99	2.99	2.19	1.67	4.99	3.18
4/ 4/87	2.16	2.98	3.93	3.08	3.97	2.97	2.17	1.66	4.96	3.13
4/ 5/87	2.12	2.95	3.89	3.02	3.92	2.92	2.14	1.63	4.91	3.07
4/ 6/87	2.09	2.93	3.87	2.97	3.89	2.87	2.12	1.60	4.87	3.02
4/ 7/87	2.05	2.91	3.95	2.94	3.98	2.87	2.12	1.59	4.84	2.99
4/ 8/87	2.04	2.90	3.97	2.98	4.00	2.98	2.12	1.59	4.84	3.04
4/ 9/87	2.02	2.88	3.90	2.98	3.93	2.98	2.11	1.58	4.92	3.03
4/10/87	1.99	2.85	3.87	2.95	3.90	2.94	2.09	1.56	4.90	3.00
4/11/87	1.96	2.81	3.85	2.91	3.88	2.91	2.07	1.54	4.89	2.95
4/12/87	1.93	2.79	3.83	2.88	3.86	2.90	2.06	1.52	4.88	2.93
4/13/87	1.91	2.77	3.85	2.86	3.88	2.88	2.05	1.51	4.88	2.91
4/14/87	1.88	2.75	3.92	2.85	3.98	2.88	2.04	1.49	4.87	2.90
4/15/87	1.86	2.76	3.94	2.85	4.00	2.87	2.04	1.47	4.87 E	2.90
4/16/87	1.86	2.76	3.96	2.84	4.01	2.88	2.05	1.47	4.88 E	2.90
4/17/87	1.86	2.74	3.97	2.84	4.02	2.87	2.04	1.46	4.93 E	2.89
4/18/87	1.83	2.73	3.98	2.81	4.03	2.86	2.02	1.44	4.96	2.88
4/19/87	1.80	2.71	3.99	2.79	4.04	2.86	2.00	1.41	4.97	2.85
4/20/87	1.75	2.68	4.00	2.76	4.05	2.86	1.98	1.39	4.96	2.84
4/21/87	1.71	2.66	4.01	2.76	4.05	2.91	1.96	1.37	5.00	2.83
4/22/87	1.67	2.71	3.98	2.76	4.02	2.94	1.94	1.36	4.96	2.84
4/23/87	1.64	2.82	3.96	2.76	4.00	2.94	1.92	1.34	4.95	2.84
4/24/87	1.61	2.92	3.94	2.74	3.98	2.91	1.91	1.33	4.93	2.82
4/25/87	1.57	2.95	3.91	2.71	3.96	2.90	1.90	1.31	4.91	2.78
4/26/87	1.53	2.94	3.91	2.69	3.95	2.90	1.87	1.27	4.89	2.76
4/27/87	1.50	2.96	3.91	2.69	3.95	2.91	1.85	1.24	4.97	2.76
4/28/87	1.45	3.00	3.88	2.69	3.92	2.92	1.83	1.26	5.07	2.75
4/29/87	1.42	3.03	3.84	2.65	3.88	2.89	1.83	1.29	5.05	2.72
4/30/87	1.46	3.06	4.01	2.64	4.02	2.91	1.81	1.22	4.76	2.70
5/ 1/87	1.71	3.11	4.26	2.81	4.25	3.16	1.78	1.14	4.33	2.87
5/ 2/87	1.91	3.15	4.27	3.01	4.26	3.28	1.78	1.12	4.32	3.08
5/ 3/87	1.99	3.18	4.33	3.09	4.31	3.37	1.79	1.10	4.30	3.16
5/ 4/87	2.05	3.21	4.35	3.14	4.33	3.41	1.80	1.08	4.31	3.21
5/ 5/87	2.08	3.21	4.36	3.16	4.35	3.44	1.80	1.05	4.28	3.23
5/ 6/87	2.01	3.18	4.21	3.12	4.21	3.32	1.81	1.04	4.41 E	3.18
5/ 7/87	2.14	3.20	4.36	3.19	4.34	3.42	1.91	1.09	4.17 E	3.25
5/ 8/87	2.31	3.22	4.06	3.36	4.06	3.63	2.19	1.24	4.44	3.43
5/ 9/87	2.42	3.18	3.81	3.42	3.80	3.70	2.28	1.34	4.35	3.48
5/10/87	2.37	3.18	3.92	3.69	3.93	3.84	2.33	1.33	4.39	3.74
5/11/87	2.37	3.24	4.05	3.88	4.08	3.99	2.45	1.38	4.79	3.95
5/12/87	2.35	3.28	4.01	3.83	4.03	3.96	2.64	1.40	4.85	3.89
5/13/87	2.36	3.38	4.09	3.94	4.12	4.02	2.75	1.72	4.84	4.01

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
5/14/87	2.33	3.50	4.05	3.70	4.08	3.83	2.99	2.17	4.82	3.77
5/15/87	2.15	3.56	4.03	3.67	4.06	3.93	3.01	2.08	4.80	3.73
5/16/87	2.13	3.62	4.19	4.08	4.22	4.16	2.98	1.90	4.79	4.13
5/17/87	2.42	3.63	4.16	4.04	4.21	4.14	2.92	1.67	4.75	4.09
5/18/87	2.44	3.61	4.17	3.96	4.22	3.99	2.86	1.61	4.73	4.02
5/19/87	2.45	3.60	4.22	3.87	4.27	3.78	2.90	1.61	4.71	3.94
5/20/87	2.45	3.56	4.19	3.80	4.26	3.71	2.91	1.63	4.68	3.87
5/21/87	2.43	3.51	4.14	3.70	4.21	3.62	2.82	1.62	4.64	3.78
5/22/87	2.39	3.46	4.08	3.60	4.15	3.50	2.75	1.60	4.58	3.67
5/23/87	2.35	3.41	4.04	3.55	4.10	3.43	2.69	1.59	4.54	3.61
5/24/87	2.32	3.37	3.99	3.47	4.05	3.36	2.63	1.58	4.48	3.53
5/25/87	2.28	3.31	3.92	3.38	3.98	3.27	2.58	1.57	4.46	3.44
5/26/87	2.25	3.25	3.85	3.29	3.91	3.19	2.54	1.56	4.40	3.36
5/27/87	2.22	3.20	3.79	3.20	3.84	3.11	2.50	1.55	4.36	3.26
5/28/87	2.20	3.15	3.73	3.15	3.78	3.05	2.47	1.55	4.33	3.21
5/29/87	2.16	3.10	3.70	3.14	3.74	3.02	2.46	1.54	4.31	3.20
5/30/87	2.14	3.06	3.67	3.12	3.71	2.99	2.44	1.54	4.28	3.18
5/31/87	1.51	3.02	3.62	3.05	3.67	2.95	2.43	1.53	4.24	3.11
6/ 1/87	2.13	2.97	3.57	3.03	3.62	2.91	2.40	1.54	4.20	3.09
6/ 2/87	2.12	2.94	3.62	3.06	3.66	2.90	2.37	1.54	4.34	3.12
6/ 3/87	2.08	2.90	3.81	3.06	3.87	2.89	2.33	1.53	4.43	3.12
6/ 4/87	2.05	2.87	3.85	3.00	3.90	2.86	2.29	1.52	4.44	3.06
6/ 5/87	2.01	2.84	3.84	2.98	3.89	2.82	2.24	1.49	4.44	3.04
6/ 6/87	1.97	2.82	3.80	2.94	3.85	2.79	2.19	1.47	4.45	3.01
6/ 7/87	1.93	2.79	3.83	2.92	3.87	2.76	2.15	1.45	4.53	2.99
6/ 8/87	1.89	2.77	3.89	2.91	3.95	2.73	2.12	1.44	4.52	2.98
6/ 9/87	1.84	2.83	3.93	3.05	3.98	2.75	2.20	1.42	4.53	3.11
6/10/87	1.81	2.85	3.95	2.95	4.01	2.75	2.27	1.41	4.58	3.01
6/11/87	1.80	2.86	3.84	2.91	3.90	2.78	2.25	1.39	4.60	2.97
6/12/87	1.84	2.83	3.77	2.90	3.82	2.84	2.23	1.36	4.64	2.95
6/13/87	1.82	2.81	3.73	2.88	3.77	2.84	2.19	1.34	4.61	2.93
6/14/87	1.83	2.80	3.71	2.86	3.75	2.83	2.16	1.33	4.62	2.91
6/15/87	1.82	2.79	3.76	2.86	3.81	2.83	2.11	1.31	4.76	2.91
6/16/87	1.81	2.80	3.79	2.86	3.83	2.80	2.08	1.28	4.86	2.91
6/17/87	1.77	2.83	3.78	2.85	3.81	2.79	2.04	1.25	4.84	2.90
6/18/87	1.74	2.83	3.75	2.84	3.78	2.77	2.00	1.22	4.79	2.89
6/19/87	1.73	2.79	3.72	2.85	3.75	2.75	1.98	1.19	4.78	2.90
6/20/87	1.71	2.77	3.71	2.95	3.73	2.76	1.95	1.16	4.77	3.02
6/21/87	1.68	2.75	3.69	2.93	3.72	2.76	1.92	1.12	4.74	2.98
6/22/87	1.65	2.77	3.66	2.85	3.69	2.73	1.89	1.09	4.73	2.91
6/23/87	1.71	2.90	3.80	2.81	3.80	2.86	1.89	1.05	4.48 E	2.87
6/24/87	1.97	3.12	4.19	3.00	4.18	3.22	1.91	1.06	4.39 E	3.06
6/25/87	2.12	3.25	4.09	3.20	4.11	3.33	2.00	1.18	4.59	3.27
6/26/87	2.20	3.33	3.88	3.39	3.92	3.30	2.31	1.29	4.60	3.45
6/27/87	2.16	3.40	4.13	3.50	4.16	3.25	2.43	1.44	4.77	3.56
6/28/87	2.23	3.62	4.44	3.98	4.36	2.71	2.56	2.10	4.87	4.06
6/29/87	2.33	3.82	4.54	4.28	4.47	2.87	2.64	2.23	4.66	4.39
6/30/87	2.36	3.99	4.34	3.88	4.28	3.05	2.64	2.24	4.63	3.98

Table D.11 Average Daily Upstream Water Levels (ft. NGVD), Various Water Control Structures
from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/ 1/87	2.17	4.06	4.33	3.86	4.31	3.68	2.65	2.10	4.53	3.94
7/ 2/87	2.13	4.08	4.33	3.94	4.31	3.73	2.65	2.07	4.49	4.00
7/ 3/87	2.12	4.02	4.20	3.92	4.20	3.82	2.64	1.98	4.47	3.99
7/ 4/87	2.20	4.02	4.25	3.95	4.26	3.89	2.66	1.89	4.45	4.02
7/ 5/87	2.24	3.97	4.24	4.10	4.27	4.03	2.69	1.79	4.48	4.17
7/ 6/87	2.17	3.88	4.19	3.93	4.24	3.83	2.66	1.70	4.58	4.01
7/ 7/87	2.16	3.85	4.21	3.79	4.27	3.60	2.64	1.61	4.56	3.87
7/ 8/87	2.13	3.77	4.14	3.78	4.20	3.52	2.60	1.57	4.55	3.85
7/ 9/87	2.09	3.70	4.04	3.76	4.10	3.44	2.55	1.54	4.50	3.82
7/10/87	2.05	3.63	3.96	3.69	4.01	3.37	2.51	1.52	4.47	3.76
7/11/87	2.01	3.56	3.88	3.64	3.94	3.32	2.55	1.50	4.44	3.70

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/11/85	1.65	2.10	4.10	2.63	4.02	2.38	2.08	0.49	4.67	4.86
7/12/85	1.80	2.15	4.23	2.71	4.06	2.46	2.03	0.55	4.62	4.27
7/13/85	2.20	2.15	4.20	2.73	3.99	2.53	1.99	0.64	4.55	4.58
7/14/85	2.23	2.17	4.13	2.69	3.95	2.53	2.02 P	0.57	4.56	4.59
7/15/85	2.23	2.17	4.04	2.65	3.91	2.51	M	0.47	4.51	4.83
7/16/85	2.18	2.09	3.89	2.61	3.97	2.27	2.10 P	0.50	4.48	5.25
7/17/85	2.18	2.10	3.99	2.60	4.02	2.36	2.03	0.54	4.53	5.26
7/18/85	2.23	2.13	4.18	2.66	4.01	2.44	2.07	0.65	4.46	5.27
7/19/85	2.27	2.03	4.25	2.68	3.93	2.56	2.03	0.71	4.41	5.28
7/20/85	2.28	2.04	4.44	2.69	4.05	2.60	2.03	0.69	4.47	5.30
7/21/85	2.31	2.09	4.57	2.70	4.18	2.65	2.05	0.70	4.88	5.25
7/22/85	2.33	2.09	4.50	2.99	4.14	2.77	1.87	0.73	4.77	5.21
7/23/85	2.44	2.45	4.93	3.94	4.65	3.49	1.58	0.61	5.27	5.25
7/24/85	1.82	2.66	4.85	3.92	4.48	3.46	1.92	0.65	5.32	5.24
7/25/85	2.46	2.66	4.68	3.81	4.14	3.24	2.09	0.69	5.82	5.22
7/26/85	2.57	2.55	4.49	3.70	3.91	3.16	2.07	0.73	5.50	5.20
7/27/85	2.57	2.44	4.31	3.60	3.74	3.07	2.05	0.67	5.34	5.20
7/28/85	2.55	2.38	4.13	3.52	3.58	2.99	2.05	0.70	5.09	5.21
7/29/85	2.49	2.19	4.12	3.32	3.70	2.69	2.10	0.77	4.87	5.22
7/30/85	2.42	2.09	4.40	2.96	4.11	2.51	2.08	0.77	4.91	5.26
7/31/85	2.43	2.04	4.42	2.86	4.04	2.56	2.00	0.76	4.85	5.28
8/ 1/85	2.47	2.07	4.53	2.84	4.11	2.79	2.12	0.86	4.97	5.31
8/ 2/85	2.49	2.08	4.67	2.96	4.24	2.74	2.06	0.90	5.24	5.11
8/ 3/85	2.47	2.06	4.63	3.06	4.25	2.70	2.07	0.93	5.22	4.99
8/ 4/85	2.50	2.07	4.53	3.07	4.09	2.74	2.05	0.98	5.13	4.97
8/ 5/85	2.55	2.07	4.42	3.09	4.04	2.86	2.06	0.98	5.06	4.75
8/ 6/85	2.56	2.05	4.51	3.11	4.05	2.87	2.04	1.00	4.77	4.69
8/ 7/85	2.56	2.08	4.43	3.11	3.98	2.87	2.08	1.04	4.75	4.92
8/ 8/85	2.50	2.03	4.07	3.05	3.99	2.68	2.07	1.04	4.55	4.90
8/ 9/85	2.49	2.05	3.91	3.02	3.96	2.64	2.06	0.99	4.54	4.65
8/10/85	2.48	2.03	3.88	3.01	3.91	2.63	2.02	0.89	4.50	3.99
8/11/85	2.52	2.10	3.81	2.99	3.86	2.65	2.09	0.84	4.45	3.86
8/12/85	2.49	2.09	3.71	2.96	3.89	2.64	2.10	0.85	4.94	4.44
8/13/85	2.48	2.05	3.66	2.95	3.88	2.65	2.15	0.99	4.88	4.75
8/14/85	2.41	2.06	3.85	2.94	4.12	2.36	2.11	1.04	4.87	4.77
8/15/85	2.32	2.07	4.21	2.97	4.37	2.20	2.15	1.07	4.71	4.79
8/16/85	2.28	2.07	3.97	2.95	4.33	2.16	2.15	1.01	4.46	4.80
8/17/85	2.24	2.03	3.81	2.91	4.34	2.11	2.21	1.01	4.52	4.79 P
8/18/85	2.21	2.08	3.86	2.92	4.37	2.09	2.12	1.02	4.58	4.80 P
8/19/85	2.27	2.08	3.94	2.96	4.18	2.46	2.13	1.02	4.76	4.80 P
8/20/85	2.31	2.07	3.84	2.94	4.01	2.43	2.15	1.05	4.62	4.80 P
8/21/85	2.27	2.06	3.73	2.90	3.96	2.33	2.07	1.05	4.62	4.69 P
8/22/85	2.26	2.06	3.66	2.88	3.94	2.31	2.12	1.10	4.64	4.73 P
8/23/85	2.23	2.08	3.60	2.87	3.93	2.24	2.17	1.09	4.58	4.63 P
8/24/85	2.17	2.07	3.56	2.83	3.86	2.05	2.12	1.00	4.22	4.54 E
8/25/85	2.14	2.09	3.51	2.81	3.71	2.03	2.17	0.96	4.16	4.16 E
8/26/85	2.07	2.07	3.47	2.71	3.60	2.07	2.15	1.05	4.34	4.19 E
8/27/85	1.99	2.07	3.76	2.58	3.95	2.29	2.11	1.09	4.44	4.70

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
8/28/85	1.96	2.12	3.90	2.57	4.04	2.35	2.18	1.54	4.33	4.73
8/29/85	2.10	2.19	4.05	2.63	4.07	2.62	2.08	1.41	4.79	4.75
8/30/85	2.26	2.13	4.09	2.61	4.00	2.60	2.12	1.18	4.88	4.76
8/31/85	2.26	2.09	4.35	2.59	4.04	2.55	2.13	1.10	5.08	4.77
9/ 1/85	2.29	2.10	4.58	2.58	4.17	2.70	2.08	0.96	5.62	4.78
9/ 2/85	2.32	2.08	4.62	2.57	4.21	2.73	2.16	0.97	5.29	4.80
9/ 3/85	2.37	2.08	4.30	2.60	3.99	2.74	2.10	1.02	4.45	4.78
9/ 4/85	2.37	2.07	4.23	2.70	4.02	2.47	2.13	1.13	4.48	4.68
9/ 5/85	2.38	2.07	4.08	2.75	3.91	2.73	2.12	1.05	4.50	4.79
9/ 6/85	2.38	2.07	3.88	2.70	3.76	2.73	2.14	1.03	4.43	5.10
9/ 7/85	2.37	2.07	3.78	2.67	3.73	2.66	2.17	1.08	4.43	5.11
9/ 8/85	2.32	2.06	3.99	2.65	4.16	2.46	2.12	1.02	4.54	5.12
9/ 9/85	2.39	2.08	4.35	2.71	4.16	2.87	2.11	0.97	5.04	5.14
9/10/85	2.40	2.11	4.42	2.70	4.15	2.87	2.10	1.00	5.16	5.15
9/11/85	2.38	2.13	4.60	2.87	4.22	3.11	2.09	0.96	5.36	5.15
9/12/85	2.34	2.11	4.29	3.08	4.06	3.05	2.10	0.93	5.21	5.03
9/13/85	2.45	2.11	4.46	3.11	4.00	3.19	2.11	1.02	5.59	4.98
9/14/85	2.48	2.10	4.54	3.15	4.04	3.22	2.11	1.26	5.71	4.90
9/15/85	2.52	2.19	4.64	3.20	4.13	3.30	2.16	1.90	5.75	4.43
9/16/85	2.58	2.28	4.70	3.47	4.24	3.50	2.20	2.00	5.80	4.70
9/17/85	2.68	2.35	4.65	3.92	4.28	3.70	2.18	1.92	5.53	4.87
9/18/85	2.64	2.74	4.63	3.91	4.33	3.72	2.27	1.75	4.99	5.13
9/19/85	2.61	2.72	4.47	3.57	4.11	3.58	2.32	1.77	4.84	5.06
9/20/85	2.59	2.67	4.57	3.57	4.15	3.58	2.16	1.54	5.19	5.13
9/21/85	2.53	2.39	4.45	3.65	4.01	3.48	2.08	1.29	5.42	5.13
9/22/85	2.49	2.28	4.46	3.64	3.96	3.43	2.07	1.23	5.73	5.13
9/23/85	2.47	2.25	4.46	3.48	3.91	3.40	2.12	1.34	5.73	4.99
9/24/85	2.54	2.24	4.58	3.27	3.91	3.40	2.11	1.54	5.88	4.84
9/25/85	2.62	2.25	4.55	3.25	3.87	3.40	2.15	1.80	5.73	4.89
9/26/85	2.63	2.23	4.54	3.24	3.87	3.39	2.14	1.72	5.89	5.14
9/27/85	2.64	2.19	4.51	3.25	3.85	3.39	2.12	1.69	5.69	5.14
9/28/85	2.60	2.20	4.46	3.27	4.09	2.95	2.12	1.61	5.34	5.04
9/29/85	2.63	2.19	4.51	3.31	4.07	3.27	2.15	1.66	5.31	5.04
9/30/85	2.68	2.19	4.50	3.32	4.00	3.40	2.12	1.72	5.33	5.05
10/ 1/85	2.70	2.19	4.46	3.30	3.87	3.43	2.14	1.61	5.45	5.03
10/ 2/85	2.68	2.17	4.36	3.28	3.80	3.39	2.10	1.45	5.25	5.07
10/ 3/85	2.67	2.15	4.33	3.14	3.75	3.35	2.10	1.26	5.19	5.24
10/ 4/85	2.67	2.14	4.45	2.99	3.77	3.37	2.11	1.09	5.19	5.32
10/ 5/85	2.68	2.10	4.63	3.02	3.87	3.44	2.06	0.90	5.30	5.11
10/ 6/85	2.68	2.14	4.70	2.95	3.88	3.42	2.07	0.88	5.33	4.58
10/ 7/85	2.71	2.13	4.74	2.93	3.98	3.47	1.99	1.15	5.42	5.02
10/ 8/85	2.71	2.22	4.56	3.03	3.88	3.42	2.16	1.69	5.31	5.29
10/ 9/85	2.70	2.24	4.38	3.15	3.78	3.36	2.11	1.57	5.19	5.29
10/10/85	2.68	2.22	4.34	3.17	3.72	3.31	2.10	1.40	5.16	4.92
10/11/85	2.63	2.21	4.23	3.30	3.92	2.86	2.09	1.28	4.87	4.84
10/12/85	2.57	2.23	4.12	3.52	4.02	2.76	2.18	1.38	4.75	4.72
10/13/85	2.62	2.21	4.00	3.51	3.71	3.11	2.13	1.45	4.74	4.79
10/14/85	2.62	2.20	3.75	3.40	3.43	3.10	2.12	1.43	4.34	5.22

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
10/15/85	2.62	2.08	3.60	3.31	3.28	2.94	1.87	1.36	4.20	5.24
10/16/85	2.59	1.96	3.52	3.26	3.27	2.68	1.72	1.47	4.09	5.23
10/17/85	2.55	1.95	3.52	3.26	3.38	2.56	1.73	1.63	4.06	5.23
10/18/85	2.56	1.94	3.52	3.26	3.38	2.55	1.74	1.70	4.08	5.23
10/19/85	2.56	1.92	3.55	3.29	3.40	2.58	1.73	1.56	4.10	5.10
10/20/85	2.69	1.89	3.77	3.52	3.49	2.86	1.75	1.53	4.29	4.13
10/21/85	2.70	1.85	3.47	3.31	3.38	2.89	1.78	1.58	4.72	4.43
10/22/85	2.70	1.84	3.28	3.15	3.31	2.89	1.80	1.65	4.62	4.94 E
10/23/85	2.69	1.84	3.25	3.07	3.22	2.85	1.80	1.70	4.63	5.16 E
10/24/85	2.69	1.75	3.38	3.04	3.24	2.86	1.74	1.63	4.94	5.19 E
10/25/85	2.68	1.72	3.38	3.03	3.23	2.84	1.71	1.66	4.98	5.20
10/26/85	2.68	1.76	3.43	3.03	3.21	2.83	1.73	1.69	4.95	4.57
10/27/85	2.70	1.85	3.59	3.07	3.29	2.86	1.81	1.80	4.98	3.77
10/28/85	2.71	1.77 <	3.55	3.07	3.33	2.88	1.73	1.64	5.02	4.48
10/29/85	2.70	1.73	3.49	3.15	3.27	2.84	1.70	1.60	4.82	5.15
10/30/85	2.68	1.79	3.51	3.23	3.15	2.79	1.64	1.52	4.26	5.18
10/31/85	2.63	1.78	3.48	3.19	3.27	2.64	1.61	1.30	4.17	5.19
11/ 1/85	2.60	1.77	3.49	3.21	3.38	2.56	1.57	1.14	4.16	5.20
11/ 2/85	2.59	1.77	3.46	3.20	3.35	2.55	1.57	1.35	4.11	5.21
11/ 3/85	2.57	1.77	3.44	3.19	3.34	2.55	1.56	1.17	4.10	5.21
11/ 4/85	2.58	1.74	3.51	3.14	3.42	2.56	1.46	1.00	4.16	4.74
11/ 5/85	2.57	1.72	3.33	3.01	3.45	2.54	1.36	0.99	4.21	4.55
11/ 6/85	2.55	1.74	3.38	2.89	3.42	2.53	1.38	1.00	4.19	4.68
11/ 7/85	2.54	1.75	3.55	2.76	3.42	2.50	1.34	0.97	4.17	4.70
11/ 8/85	2.53	1.76	3.55	2.71	3.41	2.48	1.40	1.00	4.15	4.67
11/ 9/85	2.52	1.76	3.53	2.67	3.39	2.48	1.43	1.21	4.13	4.68
11/10/85	2.51	1.75	3.58	2.64	3.40	2.47	1.43	1.12	4.15	3.91
11/11/85	2.50	1.75	3.59	2.61	3.39	2.46	1.40	1.07	4.16	3.59
11/12/85	2.47	1.75	3.51	2.59	3.28	2.37	1.40	1.06	4.01	4.18
11/13/85	2.31	1.76	3.33	2.54	3.21	2.29	1.40	1.07	4.13	4.74
11/14/85	2.20	1.76	3.32	2.52	3.18	2.35	1.38	1.04	4.33	4.73
11/15/85	2.15	1.76	3.41	2.51	3.30	2.40	1.35	1.01	4.42	4.72
11/16/85	2.32	1.76	3.53	2.52	3.24	2.18	1.35	0.96	4.48	4.72
11/17/85	2.32	1.72	3.54	2.49	3.31	2.19	1.35	0.95	4.46	4.72
11/18/85	2.39	1.67	3.47	2.82	3.04	2.40	1.47	1.32	4.28	4.71
11/19/85	2.48	1.86	3.47	2.96	3.03	2.46	1.77	2.21	4.19	4.24
11/20/85	2.64	1.79	3.55	3.29	3.27	2.84	1.50	1.38	4.37	4.73
11/21/85	2.60	1.71	3.32	3.07	3.29	2.66	1.33	0.80	4.16	4.59
11/22/85	2.55	1.73	3.44	3.00	3.49	2.52	1.32	0.63	4.14	4.26
11/23/85	2.54	1.73	3.38	2.93	3.49	2.50	1.31	0.61	4.12	4.71
11/24/85	2.53	1.75	3.32	2.90	3.44	2.48	1.38	0.89	4.09	4.69
11/25/85	2.49	1.75	3.32	2.83	3.29	2.40	1.37	0.99	4.14	4.69
11/26/85	2.39	1.76	3.40	2.68	3.29	2.22	1.36	0.97	4.37	4.70
11/27/85	2.37	1.72	3.43	2.62	3.30	2.21	1.34	0.86	4.32	4.70
11/28/85	2.30	1.75	3.41	2.58	3.23	2.22	1.35	0.80	4.14	4.71
11/29/85	2.18	1.73	3.37	2.56	3.22	2.31	1.33	0.64	4.12	4.72
11/30/85	2.12	1.71	3.34	2.55	3.19	2.32	1.32	0.51	4.10	4.72
12/ 1/85	2.08	1.67	3.32	2.53	3.17	2.31	1.29	0.46	4.09	4.73

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
12/ 2/85	2.04	1.77	3.38	2.51	3.14	2.30	1.29	0.49	4.04	4.58
12/ 3/85	2.01	1.72	3.52	2.50	3.14	2.28	1.34	0.68	3.96	4.32
12/ 4/85	2.02	1.71	3.53	2.49	3.16	2.27	1.32	0.88	3.97	4.33
12/ 5/85	2.12	1.54	3.60	2.52	3.25	2.32	1.36	0.80	4.22	4.32
12/ 6/85	2.33	1.59	3.58	2.65	3.21	2.51	1.37	0.87	4.33	4.32
12/ 7/85	2.51	1.76	3.22	2.74	2.95	2.57	1.45	1.19	4.08	4.32
12/ 8/85	2.51	1.77	3.08	2.72	2.88	2.55	1.39	1.07	4.00	4.32
12/ 9/85	2.39	1.76	3.06	2.64	2.93	2.41	1.38	0.96	3.91	4.32
12/10/85	2.19	1.77	3.18	2.54	3.04	2.34	1.40	1.11	3.97	4.32
12/11/85	2.13	1.78	3.22	2.51	3.06	2.34	1.41	1.15	4.00	4.32
12/12/85	2.08	1.75	3.23	2.49	3.06	2.31	1.33	0.90	4.00	4.32
12/13/85	2.04	1.75	3.23	2.47	3.06	2.29	1.30	0.77	4.00	4.32
12/14/85	2.00	1.74	3.23	2.46	3.06	2.27	1.32	0.64	4.01	4.31
12/15/85	1.98	1.75	3.22	2.44	3.06	2.26	1.33	0.79	4.01	4.31
12/16/85	1.96	1.76	3.21	2.42	3.04	2.25	1.33	0.74	4.02	4.31
12/17/85	1.97	1.74	3.26	2.43	3.07	2.27	1.34	0.81	4.02	4.32
12/18/85	1.96	1.75	3.26	2.41	3.09	2.27	1.33	0.72	4.03	4.31
12/19/85	1.93	1.74	3.22	2.37	3.08	2.25	1.33	0.67	3.99	4.30
12/20/85	1.91	1.73	3.17	2.36	3.05	2.24	1.34	0.68	3.98	4.29
12/21/85	1.89	1.75	3.14	2.35	3.03	2.22	1.34	0.69	3.95	4.29
12/22/85	1.87	1.72	3.12	2.33	3.00	2.20	1.35	0.64	3.93	3.62
12/23/85	1.86	1.74	3.09	2.32	2.98	2.19	1.35	0.67	3.91	3.90
12/24/85	1.86	1.75	3.13	2.34	3.00	2.22	1.37	0.70	3.91	4.25
12/25/85	1.85	1.74	3.45	2.44	3.17	2.30	1.31	0.59	4.02	4.26
12/26/85	1.83	1.76	3.40	2.41	3.20	2.27	1.32	0.54	4.02	4.26
12/27/85	1.82	1.76	3.33	2.40	3.15	2.26	1.35	0.44	3.97	4.27
12/28/85	1.84	1.77	3.34	2.40	3.17	2.28	1.32	0.45	4.00	4.27
12/29/85	1.86	1.76	3.38	2.40	3.21	2.30	1.32	0.36	4.08	4.27
12/30/85	1.84	1.77	3.38	2.39	3.22	2.27	1.35	0.50	4.08	4.28
12/31/85	1.84	1.75	3.36	2.39	3.21	2.26	1.36	0.54	4.07	4.28
1/ 1/86	1.82	1.77	3.32	2.38	3.19	2.25	1.35	0.46	4.04	4.29
1/ 2/86	1.81	1.76	3.30	2.37	3.16	2.22	1.35	0.47	4.01	4.29
1/ 3/86	1.80	1.78	3.25	2.35	3.13	2.20	1.35	0.48	4.01	4.29
1/ 4/86	1.79	1.77	3.22	2.35	3.10	2.19	1.38	0.53	3.97	4.29
1/ 5/86	1.77	1.77	3.18	2.32	3.08	2.16	1.34	0.42	3.97	4.29
1/ 6/86	1.76	1.78	3.14	2.30	3.04	2.14	1.38	0.56	3.95	4.29
1/ 7/86	1.76	1.76	3.22	2.32	3.08	2.17	1.44	0.51	3.93	4.29
1/ 8/86	1.77	1.80	3.54	2.44	3.31	2.23	1.40	0.73	3.98	4.29
1/ 9/86	1.87	1.89	3.32	2.98	3.21	2.53	1.50	1.23	4.28	4.29
1/10/86	2.32	1.70	3.37	3.09	3.47	2.58	1.41	0.86	4.83	4.19
1/11/86	2.45	1.62	3.35	3.08	3.31	2.70	1.40	0.73	4.70	3.80
1/12/86	2.48	1.66	3.18	3.00	3.12	2.61	1.45	1.05	4.22	3.56
1/13/86	2.40	1.67	3.16	2.95	3.23	2.45	1.45	1.04	4.36	3.90
1/14/86	2.37	1.63	3.19	2.85	3.33	2.29	1.40	0.98	4.43	4.23
1/15/86	2.36	1.62	3.29	2.72	3.30	2.26	1.40	0.92	4.39	4.25
1/16/86	2.28	1.57	3.38 P	2.66	3.25 P	2.39	1.30	0.82	4.31	4.25
1/17/86	2.09	1.57	3.32	2.66	3.28	2.41 E	1.36	0.80	4.32	4.25
1/18/86	2.03	1.53	3.42	2.61	3.39	2.39	1.33	0.65	4.33	4.26

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
1/19/86	1.99	1.50	3.48	2.60	3.42	2.37	1.34	0.45	4.34	4.26
1/20/86	1.96	1.60	3.45	2.60	3.41	2.36	1.30	0.39	4.31	4.27
1/21/86	1.94	1.59	3.38	2.61	3.36	2.35	1.34	0.31	4.28	4.27
1/22/86	1.92	1.80	3.35	2.58	3.30	2.34	1.30	0.28	4.23	4.28
1/23/86	1.90	1.75	3.33	2.55	3.27	2.32	1.29	0.32	4.20	4.28
1/24/86	1.88	1.73	3.31	2.51	3.26	2.30	1.32	0.44	4.17	4.28
1/25/86	1.88	1.81	3.33	2.46	3.25	2.30	1.34	0.52	4.16	4.27
1/26/86	1.85	1.77	3.35	2.44	3.24	2.27	1.26	0.45	4.15	4.00
1/27/86	1.83	1.72	3.32	2.41	3.20	2.25	1.40	0.51	4.11	3.91
1/28/86	1.82	1.64	3.25	2.38	3.14	2.22	1.59	0.66	4.06	4.25
1/29/86	1.81	1.51	3.17	2.35	2.98	2.20	1.64	0.58	3.93	4.25
1/30/86	1.80	1.52	3.14	2.33	3.04	2.18	1.44	0.60	3.95	4.25
1/31/86	1.79	1.50	3.13	2.32	3.05	2.17	1.32	0.52	3.93	4.25
2/ 1/86	1.77	1.47	3.13	2.32	3.04	2.16	1.35	0.53	3.90	4.25
2/ 2/86	1.76	1.40	3.10	2.30	3.01	2.15	1.35	0.36	3.90	4.26
2/ 3/86	1.74	1.42	3.08	2.28	2.99	2.12	1.39	0.28	3.90	4.22
2/ 4/86	1.73	1.65	3.06	2.27	2.95	2.10	1.33	0.30	3.85	4.18
2/ 5/86	1.72	1.74	3.03	2.25	2.91	2.08	1.34	0.22	3.80	4.16
2/ 6/86	1.70	1.76	2.99	2.23	2.87	2.06	1.33	0.17	3.76	4.17
2/ 7/86	1.69	1.76	2.96	2.21	2.85	2.03	1.32	0.07	3.73	4.17
2/ 8/86	1.67	1.75	2.93	2.19	2.84	2.01	1.35	0.11	3.74	4.17
2/ 9/86	1.66	1.76	2.90	2.16	2.82	1.98	1.33	0.16	3.73	4.17
2/10/86	1.65	1.75	2.87	2.15	2.79	1.97	1.33	0.24	3.71	4.17
2/11/86	1.64	1.69	2.84	2.14	2.76	1.99	1.29	0.22	3.72	4.16
2/12/86	1.68	1.56	2.86	2.20	2.77	2.10	1.31	0.32	3.72	4.17
2/13/86	1.67	1.73	2.85	2.19	2.78	2.08	1.29	0.50	3.69	4.17
2/14/86	1.66	1.75	2.83	2.17	2.77	2.06	1.26	0.43	3.68	4.17
2/15/86	1.63	1.72	2.82	2.14	2.75	2.02	1.31	0.29	3.67	4.20
2/16/86	1.64	1.73	2.77	2.12	2.73	2.00	1.36	0.52	3.65	4.20
2/17/86	1.62	1.75	2.75	2.10	2.70	1.97	1.35	0.50	3.60	4.19
2/18/86	1.65	1.65	2.95	2.18	2.78	2.05	1.31	0.50	3.64	4.15
2/19/86	1.68	1.58	3.19	2.27	2.99	2.13	1.52	0.45	3.79	4.12
2/20/86	1.66	1.72	3.13	2.25	3.00	2.10	1.60	0.51	3.79	4.19
2/21/86	1.65	1.71	3.10	2.24	2.99	2.08	1.59	0.73	3.78	4.19
2/22/86	1.65	1.75	3.07	2.22	2.97	2.06	1.63	0.86	3.77	4.18
2/23/86	1.64	1.75	3.03	2.20	2.93	2.05	1.58	0.83	3.73	4.18
2/24/86	1.64	1.74	2.97	2.18	2.89	2.00	1.61	0.90	3.70	4.19
2/25/86	1.66	1.73	2.92	2.13	2.83	1.90	1.56	0.86	3.67	4.18
2/26/86	1.68	1.73	2.85	2.09	2.78	1.85	1.61	1.15	3.61	4.06
2/27/86	1.68	1.75	2.86	2.05	2.78	1.82	1.57	0.88	3.61	3.65
2/28/86	1.67	1.73	2.90	2.02	2.82	1.77	1.59	0.73	3.60	3.84
3/ 1/86	1.63	1.69	2.93	2.02	2.84	1.77	1.55	0.72	3.56	4.03
3/ 2/86	1.60	1.73	2.90	2.00	2.82	1.79	1.58	0.66	3.53	4.04
3/ 3/86	1.58	1.74	2.83	1.96	2.72	1.77	1.59	0.48	3.55	4.05
3/ 4/86	1.56	1.75	2.85	1.97	2.79	1.75	1.57	0.30	3.68	4.06
3/ 5/86	1.54	1.74	2.89	1.96	2.82	1.74	1.57	0.29	3.72	4.07
3/ 6/86	1.51	1.73	2.92	1.94	2.85	1.71	1.55	0.30	3.74	4.07
3/ 7/86	1.50	1.76	2.94	1.92	2.86	1.70	1.54	0.25	3.74	3.83

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/ 8/86	1.49	1.77	2.92	1.91	2.85	1.68	1.52	0.34	3.72	3.56
3/ 9/86	1.49	1.79	2.90	1.91	2.86	1.68	1.52	0.54	3.69	3.56
3/10/86	1.49	1.74	3.14	2.36	3.13	1.82	1.47	0.51	3.76	3.83
3/11/86	1.47	1.61	2.97	2.56	3.12	2.00	1.27	0.27	4.25	4.02
3/12/86	1.47	1.56	3.29	2.34	3.31	2.02	1.30	0.33	4.32	4.03
3/13/86	1.49	1.60	3.48	2.32	3.31	2.07	1.31	0.29	4.19	4.03
3/14/86	1.49	1.53	3.37	2.52	3.42	2.05	1.17	0.03	4.21	4.04
3/15/86	1.47	1.50	3.24	2.52	3.34	2.04	1.29	-0.01	4.15	3.97
3/16/86	1.47	1.54	3.27	2.59	3.37	2.15	1.28	0.22	4.11	3.58
3/17/86	1.47	1.50	3.40	2.48	3.41	2.16	1.42	0.25	4.11	3.84
3/18/86	1.48	1.63	3.46	2.47	3.36	2.30	1.62	0.31	4.12	4.02
3/19/86	1.47	1.84	3.32	2.44	3.19	2.33	1.63	0.30	4.09	4.05
3/20/86	1.45	1.83	3.40	2.33	3.30	2.19	1.61	0.00	4.06	4.06
3/21/86	1.46	1.68	3.44	2.50	3.37	2.18	1.39	0.09	4.12	4.07
3/22/86	1.46	1.55	3.20	2.63	3.37	2.17	1.29	0.45	4.16	4.07
3/23/86	1.46	1.56	3.05	2.60	3.27	2.15	1.37	1.00	4.12	4.06
3/24/86	1.46	1.68	3.11	2.46	3.19	2.14	1.49	1.10	4.07	4.06
3/25/86	1.52	1.80	3.27	2.31	3.20	2.10	1.65	1.49	4.03	4.06
3/26/86	1.95	1.94	3.60	2.76	3.28	2.26	1.73	1.47	4.24	4.07
3/27/86	2.29	1.73	3.25	2.95	2.97	2.29	1.14	1.31	4.92	4.07
3/28/86	2.34	1.75	3.14	2.87	2.99	2.32	1.29	1.32	5.29	4.07
3/29/86	2.35	1.81	3.00	2.81	2.96	2.33	1.40	1.18	5.21	4.07
3/30/86	2.36	1.78	2.96	2.78	2.93	2.34	1.41	0.94	5.17	4.07
3/31/86	2.37	1.78	3.13	2.82	2.94	2.34	1.40	0.91	5.21	4.07
4/ 1/86	2.37	1.74	3.27	2.89	2.88	2.32	1.34	0.75	5.11	4.08
4/ 2/86	2.36	1.71	3.28	2.91	2.83	2.31	1.32	0.68	5.06	4.08
4/ 3/86	2.36	1.80	3.33	2.93	2.81	2.31	1.53	0.71	5.37	4.08
4/ 4/86	2.30	1.91	3.30	2.74	3.06	2.21	1.64	0.77	4.80	4.05
4/ 5/86	2.20	1.90	3.36	2.45	3.26	2.06	1.64	0.80	4.35	4.07
4/ 6/86	1.96	1.91	3.37	2.37	3.43	2.12	1.62	0.72	4.40	4.08
4/ 7/86	1.85	1.89	3.44	2.34	3.55	2.13	1.66	0.59	4.33	4.08
4/ 8/86	1.79	1.84	3.48	2.31	3.55	2.11	1.63	0.56	4.24	4.05
4/ 9/86	1.74	1.78	3.47	2.29	3.54	2.10	1.59	0.59	4.18	4.08
4/10/86	1.72	1.79	3.42	2.26	3.49	2.07	1.63	0.85	4.11	4.09
4/11/86	1.70	1.79	3.33	2.23	3.29	2.05	1.67	0.96	4.13	4.09
4/12/86	1.68	1.78	3.22	2.20	3.16	2.02	1.63	0.91	4.11	4.10
4/13/86	1.84	1.80	3.43	2.62	3.25	2.18	1.58	0.85	4.20	4.11
4/14/86	1.89	1.81	3.30	2.60	3.21	2.17	1.59	0.92	4.26	4.10
4/15/86	1.74	1.75	3.45	2.40	3.33	2.22	1.59	0.77	4.24	4.10
4/16/86	1.70	1.78	3.45	2.35	3.33	2.19	1.57	0.53	4.20	4.10
4/17/86	1.67	1.77	3.40	2.32	3.28	2.16	1.59	0.62	4.14	4.10
4/18/86	1.66	1.77	3.34	2.30	3.23	2.13	1.64	0.66	4.10	4.10
4/19/86	1.64	1.76	3.26	2.26	3.17	2.10	1.59	0.83	4.07	4.10
4/20/86	1.63	1.79	3.22	2.23	3.13	2.07	1.64	0.91	4.04	3.70
4/21/86	1.61	1.71	3.18	2.22	3.09	2.05	1.63	0.67	4.01	3.82
4/22/86	1.59	1.75	3.13	2.17	3.01	2.00	1.62	0.85	3.95	4.05
4/23/86	1.58	1.73	3.05	2.14	2.95	1.96	1.64	1.18	3.88	4.05
4/24/86	1.57	1.76	2.98	2.11	2.89	1.93	1.58	1.37	3.84	4.06

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
4/25/86	1.56	1.81	2.95	2.07	2.85	1.89	1.46	1.31	4.00	4.06
4/26/86	1.54	1.91	3.04	2.05	2.86	1.85	1.45	1.14	4.22	4.07
4/27/86	1.53	1.94	3.05	2.02	2.87	1.82	1.44	1.10	4.23	4.07
4/28/86	1.50	1.95	3.07	2.00	3.04	1.78	1.32	0.96	4.17	4.07
4/29/86	1.48	1.93	3.19	1.99	3.42	1.74	1.35	0.89	4.03	4.08
4/30/86	1.46	1.92	3.24	1.98	3.47	1.71	1.39	0.89	4.04	4.08
5/ 1/86	1.44	1.92	3.29	1.97	3.59	1.68	1.44	0.99	4.00	4.09
5/ 2/86	1.41	1.91	3.30	1.95	3.59	1.65	1.44	0.94	3.98	4.09
5/ 3/86	1.38	1.88	3.29	1.93	3.60	1.62	1.43	0.82	3.96	3.94
5/ 4/86	1.37	1.89	3.34	1.91	3.62	1.61	1.47	0.95	3.98	3.56
5/ 5/86	1.38	1.96	3.42	1.94	3.70	1.63	1.55	1.10	4.04	3.87
5/ 6/86	1.36	1.97	3.45	1.93	3.73	1.60	1.55	1.07	4.04	4.05
5/ 7/86	1.33	1.95	3.49	1.91	3.75	1.58	1.53	1.05	4.04	4.07
5/ 8/86	1.31	1.94	3.54	1.92	3.77	1.64	1.55	1.04	4.07	4.07
5/ 9/86	1.30	1.93	3.68	1.99	3.94	1.71	1.60	0.97	4.22	4.07
5/10/86	1.30	1.95	3.68	2.00	3.95	1.69	1.61	1.31	4.21	4.07
5/11/86	1.31	1.94	3.65	1.99	3.91	1.66	1.60	1.40	4.17	4.08
5/12/86	1.29	1.93	3.61	1.97	3.87	1.63	1.58	1.14	4.15	4.08
5/13/86	1.28	1.92	3.56	1.94	3.83	1.61	1.57	1.16	4.10	4.08
5/14/86	1.27	1.91	3.49	1.90	3.79	1.58	1.57	1.44	4.06	4.09
5/15/86	1.28	1.91	3.44	1.87	3.75	1.55	1.56	1.58	4.04	4.08
5/16/86	1.30	1.94	3.42	1.86	3.74	1.54	1.58	1.75	4.02	4.08
5/17/86	1.30	1.94	3.40	1.85	3.70	1.53	1.57	1.57	3.95	4.08
5/18/86	1.29	1.93	3.36	1.84	3.64	1.51	1.55	1.51	3.87	4.08
5/19/86	1.27	1.91	3.32	1.80	3.61	1.48	1.53	1.43	3.89	4.08
5/20/86	1.28	1.91	3.70	1.82	3.79	1.50	1.55	1.28	3.99	4.09
5/21/86	1.29	1.95 E	3.88	1.91	3.96	1.55	1.59	1.21	4.16	4.09
5/22/86	1.34	2.09	3.91	1.92	4.11	1.75	1.69	1.11	4.71	4.02
5/23/86	1.50	2.18	4.04	2.08	4.09	2.33	1.97	1.12	4.68	3.93
5/24/86	1.49	2.19	4.08	2.15	4.09	2.43	2.00	1.08	4.49	4.10
5/25/86	1.47	2.21	3.94	2.18	3.98	2.47	1.99	1.01	4.33	4.11
5/26/86	1.47	2.16	3.80	2.19	3.85	2.49	1.98	1.04	4.16	4.11
5/27/86	1.47	2.21	3.68	2.18	3.76	2.47	1.96	1.18	4.12	4.11
5/28/86	1.49	2.15	3.62	2.17	3.71	2.45	1.94	1.17	4.12	4.11
5/29/86	1.51	2.19	3.54	2.17	3.70	2.34	1.88	1.16	4.04	4.11
5/30/86	1.48	2.19	3.51	2.13	3.84	2.12	1.79	1.22	4.06	4.11
5/31/86	1.43	2.18	3.50	2.10	3.83	2.03	1.82	1.21	4.01	4.11
6/ 1/86	1.42	2.18	3.47	2.06	3.78	1.96	1.82	1.12	3.95	4.11
6/ 2/86	1.40	2.18	3.44	2.03	3.76	1.90	1.82	0.97	3.96	4.10
6/ 3/86	1.39	2.19	3.43	1.99	3.79	1.85	1.82	1.05	4.00	4.10
6/ 4/86	1.37	2.18	3.45	1.97	3.75	1.82	1.80	1.20	3.97	4.70
6/ 5/86	1.36	2.16	3.50	1.93	3.67	1.75	1.77	1.18	3.91	5.26
6/ 6/86	1.33	2.13	3.48	1.89	3.63	1.69	1.74	1.03	3.86	5.27
6/ 7/86	1.35	2.15	3.86	2.13	3.83	1.97	1.87	0.91	3.88	4.57
6/ 8/86	1.65	2.21	4.09	2.51	4.03	2.23	1.97	0.97	4.00	4.82
6/ 9/86	1.79	2.21	4.17	2.39	4.01	2.24	1.98	0.90	4.09	4.89
6/10/86	1.71	2.22	3.99	2.31	4.01	2.18	2.01	0.81	4.01	5.20
6/11/86	1.59	2.21	4.00	2.30	4.04	2.19	2.03	0.74	4.05	5.21

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
6/12/86	1.56	2.20	3.96	2.29	4.01	2.17	2.06	0.68	4.00	5.23
6/13/86	1.58	2.18	4.11	2.30	4.02	2.21	1.98	0.73	4.09	5.01
6/14/86	2.02	2.20	4.25	2.35	3.81	2.18	1.94	0.72	4.16	4.30
6/15/86	1.83	2.22	4.21	2.36	4.10	2.20	1.93	0.72	4.17	4.38
6/16/86	1.97	2.22	4.21	2.38	4.05	2.22	1.98	0.67	4.23	5.31
6/17/86	2.15	2.22	4.17	2.47	3.88	2.22	2.03	0.73	4.20	5.33
6/18/86	2.17	2.24	4.05	2.50	3.83	2.23	2.05	0.82	4.12	5.33
6/19/86	1.90	2.23	4.16	2.47	4.15	2.33	2.09	0.91	4.21	5.34
6/20/86	2.24	2.27	4.17	2.63	3.56	2.41	2.08	0.98	4.63	5.35
6/21/86	2.38	2.27	4.07	2.89	3.28	2.55	2.05	1.01	4.92	5.13
6/22/86	2.53	2.31	4.41	3.01	3.52	2.60	2.02	1.09	5.15	4.74
6/23/86	2.55	2.30	4.45	3.13	3.70	2.66	2.05	1.07	5.17	4.81
6/24/86	2.47	2.34	4.16	3.36	3.66	2.62	2.01	0.98	5.04	5.34
6/25/86	2.41	2.35	4.10	3.35	3.47	2.56	2.02	0.95	5.55	5.06
6/26/86	2.40	2.34	4.25	3.40	3.87	2.39	2.07	1.02	5.52	4.80
6/27/86	2.52	2.34	4.35	3.50	3.83	2.57	2.02	1.03	5.40	4.30
6/28/86	2.59	2.32	4.16	3.45	3.41	2.65	1.98	0.96	5.30	4.12
6/29/86	2.60	2.34	4.12	3.42	3.38	2.65	1.91	0.92	5.37	4.01
6/30/86	2.59	2.36	4.02	3.38	3.32	2.63	1.94	0.81	5.30	4.80
7/ 1/86	2.59	2.36	3.95	3.34	3.23	2.61	2.04	0.78	5.22	5.18
7/ 2/86	2.59	2.35	3.96	3.38	3.22	2.62	2.03	0.65	5.20	4.90
7/ 3/86	2.52	2.29	4.01	3.37	3.77	2.45	2.02	0.53	5.19	5.32
7/ 4/86	2.51	2.27	4.08	3.41	3.89	2.44	2.03 E	0.55	5.22	5.34
7/ 5/86	2.51	2.27	4.06	3.39	3.85	2.42	2.05 E	0.65	5.21	5.35
7/ 6/86	2.51	2.26	4.07	3.40	3.87	2.42	2.05 E	0.74	5.21	5.36
7/ 7/86	2.50	2.27 E	4.04	3.39	3.85	2.41	2.06	0.77	5.18	5.37
7/ 8/86	2.50	2.22 E	4.00	3.38	3.79	2.41	2.10	0.70 E	5.16	5.39
7/ 9/86	2.48	2.21 E	4.14	3.43	3.83	2.39	2.07 E	0.63	5.17	5.38
7/10/86	2.49	2.25	4.22	3.49 E	3.96	2.41	2.08	0.58	5.26	5.41
7/11/86	2.49	2.24	4.12	3.44	3.88	2.40	2.07	0.57	5.19	5.42
7/12/86	2.49	2.25	4.03	3.41	3.80	2.40	2.11	0.63	5.14	5.43
7/13/86	2.48	2.24	3.97	3.38	3.74	2.38	2.07	0.68	5.09	5.44
7/14/86	2.43	2.24	4.02	3.39	3.96	2.31	2.14	0.66	5.09	5.46
7/15/86	2.45	2.24	3.94	3.37	3.77	2.34	2.04	0.65	5.02	5.48
7/16/86	2.43	2.24	3.88	3.34	3.75	2.29	2.14	0.65	4.98	5.48
7/17/86	2.25	2.23	3.82	3.17	4.11	2.27	2.15	0.63	4.47	5.49
7/18/86	2.25	2.22	3.88	2.86	4.02	2.30	2.13	0.57	4.51	5.49
7/19/86	2.29	2.12	3.92	2.76	4.02	2.16	2.12	0.51	4.48	5.50
7/20/86	2.31	2.21	3.90	2.80	3.84	2.17	2.13	0.49	4.45	5.49
7/21/86	2.18	2.20	3.98	2.84	4.16	2.22	2.14	0.68	4.55	5.48
7/22/86	2.27	2.21	3.95	2.78	4.01	2.15	2.14	0.69	4.52	5.47
7/23/86	2.29	2.18	3.98	2.72	4.03	2.17	2.15	0.71	4.57	5.24
7/24/86	2.42	2.20	4.16	2.95	3.75	2.35	2.13	0.74	4.89 P	4.73
7/25/86	2.46	2.20	4.09	3.11	3.72	2.35	2.02	0.78	4.88	5.02
7/26/86	2.45	2.21	4.34	2.78	3.91	2.33	1.87	0.76	4.63	4.67
7/27/86	2.45	2.21	4.32	2.70	3.83	2.31	1.98	0.65	4.58	4.57
7/28/86	2.50	2.21	4.07	2.97	3.47	2.42	2.09	0.63	5.02	5.10
7/29/86	2.56	2.20	3.83	3.25	3.09	2.50	2.12	0.59	5.30	5.36

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/30/86	2.55	2.20	3.69	3.21	3.00	2.47	1.95	0.49	5.05	5.37
7/31/86	2.54	2.20	3.63	3.20	2.93	2.44	1.88	0.44	4.91	5.01
8/ 1/86	2.53	2.21	3.60	3.19	2.90	2.45	2.03	0.48	4.81	4.77
8/ 2/86	2.53	2.22	3.55	3.17	2.87	2.44	2.04	0.50	4.73	4.76
8/ 3/86	2.53	2.21	3.50	3.14	2.85	2.43	2.03	0.50	4.62	4.76
8/ 4/86	2.54	2.20	3.70	3.23	2.98	2.47	2.03	0.43	4.73	4.77
8/ 5/86	2.61	2.20	3.89	3.35	3.17	2.57	2.08	0.53	4.98	4.78
8/ 6/86	2.62	2.19	3.72	3.28	3.07	2.56	2.16	0.66	4.84	4.76 E
8/ 7/86	2.61	2.18	3.63	3.25	3.01	2.54	2.15	0.65	4.70	4.58
8/ 8/86	2.60	2.19	3.53	3.20	2.92	2.50	2.13	0.62	4.51	4.73
8/ 9/86	2.40	2.19	3.48	2.88	3.18	2.24	2.13	0.68	4.26	4.73
8/10/86	2.31	2.19	3.52	2.73	3.33	2.16	2.11	0.75	4.28	4.73
8/11/86	2.43	2.18	3.61	2.97	3.15	2.33	2.14	0.71	4.88	4.73
8/12/86	2.55	2.18	3.60	3.17	2.92	2.47	2.15	0.71	4.97	4.73
8/13/86	2.56	2.18	3.55	3.17	2.89	2.47	2.13	0.56	4.78	4.72
8/14/86	2.56	2.17	3.51	3.16	2.87	2.47	2.12	0.49	4.73	4.43
8/15/86	2.56	2.17	3.48	3.15	2.85	2.47	2.13	0.48	4.64	4.23
8/16/86	2.59	2.22	3.61	3.27	2.94	2.53	2.06	0.52	4.77	3.58
8/17/86	2.70	2.31	4.00	3.50	3.21	2.66	2.00	0.64	5.57	3.79
8/18/86	2.75	2.37	4.06	3.52	3.25	2.70	1.93	0.65	5.56	4.30
8/19/86	2.70	2.34	4.04	3.54	3.26	2.67	1.99	0.60	5.45	4.35
8/20/86	2.53	2.26	3.97	3.48	3.17	2.54	2.05	0.62	5.39	4.29
8/21/86	2.49	2.25	3.88	3.44	3.10	2.49	2.06	0.78	5.29	4.47
8/22/86	2.47	2.25	3.86	3.44	3.08	2.47	2.06	0.72	5.22	4.44
8/23/86	2.44	2.23	3.77	3.38	3.00	2.42	2.06	0.82	5.15	4.67
8/24/86	2.41	2.22	3.75	3.36	2.94	2.38	2.13	0.86	5.08	4.14
8/25/86	2.39	2.20	3.74	3.35	2.91	2.36	2.10	0.85	5.32	4.32
8/26/86	2.37	2.21	3.73	3.36	2.90	2.35	2.14	0.82	5.19	4.62
8/27/86	2.33	2.15	3.67	3.32	2.85	2.31	2.01	0.69	4.98	4.60
8/28/86	2.30	2.20	3.63	3.29	2.79	2.28	2.15	0.67	4.88	4.36
8/29/86	2.28	2.20	3.58	3.26	2.75	2.26	2.16	0.71	4.87	4.66
8/30/86	2.28	2.21	3.55	3.23	2.72	2.25	2.16	0.98	4.83	4.63
8/31/86	2.33	2.17	3.65	3.30	2.78	2.31	2.13	1.16	4.82	3.68
9/ 1/86	M	2.18	3.58	3.24	2.76	2.28	2.13	1.05	4.78	3.58
9/ 2/86	M	2.19	3.55	3.05	3.30	2.18	2.15	1.16	4.81	3.89
9/ 3/86	M	2.11	4.05	2.85	4.21	2.14	2.13	1.26	4.97	4.66 E
9/ 4/86	M	2.17	4.45	2.88	4.11	2.32	2.08	1.26	5.05	4.96 E
9/ 5/86	M	2.19	4.54	3.12	3.92	2.57	2.05	1.32	5.19	4.99
9/ 6/86	M	2.33	4.28	3.22	3.72	2.55	2.09	1.42	5.09	5.18
9/ 7/86	M	2.37	4.32	3.24	3.81	2.57	2.06	1.44	5.20	5.19
9/ 8/86	M	2.38	4.44	3.42	3.81	2.67	2.04	1.31	5.38	5.19
9/ 9/86	M	2.37	4.20	3.54	3.46	2.59	2.04	1.33	5.36	5.19
9/10/86	M	2.30	3.99	3.48	3.23	2.55	2.10	1.32	5.24	5.04
9/11/86	M	2.25	3.85	3.41	3.11	2.49	2.03	1.24	5.15	5.19
9/12/86	M	2.22	3.76	3.37	3.04	2.51	2.07	1.14	5.08	5.18
9/13/86	M	2.17	3.72	3.35	3.05	2.58	2.08	1.10	5.00	5.17
9/14/86	M	2.17	3.68	3.32	3.00	2.57	2.11	1.11	4.92	5.17
9/15/86	M	2.18	3.64	3.31	2.97	2.57	2.09	1.20	4.82	5.17

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C USGS	S-165 WMD	S-174 WMD	S-175 WMD	S-176 WMD	S-177 WMD	S-179 WMD	S-197 WMD	S-331 WMD	S-332 WMD
9/16/86	M	2.18	3.67	3.32	3.30	2.47	2.13	1.21	4.74	5.07
9/17/86	M	2.15	3.73	3.36	3.44	2.46	2.06	1.26	4.69	5.06
9/18/86	M	2.17	3.73	3.37	3.42	2.48	2.10	1.35	4.68	5.07
9/19/86	M	2.17	3.70	3.19	3.47	2.39	2.08	1.32	4.42	5.06
9/20/86	M	2.17	3.60	2.92	3.47	2.29	2.10	1.34	4.37	5.06
9/21/86	M	2.29	3.81	2.85	3.96	2.25	2.00	1.28	4.43	5.08
9/22/86	M	2.23	3.99	2.83	3.97	2.36	2.01	1.16	4.42	5.07
9/23/86	M	2.19	3.93	2.84	3.90	2.41	1.98	1.08	4.43	5.05
9/24/86	M	2.18	3.88	2.82	3.81	2.45	2.00	1.14	4.46	5.04
9/25/86	M	2.19	3.79	2.79	3.77	2.43	2.00	1.14	4.42	5.04
9/26/86	M	2.21	3.83	2.75	3.96	2.35	2.06	0.97	4.50	5.05
9/27/86	M	2.20	3.76	2.72	3.90	2.31	1.99	0.79	4.47	5.20
9/28/86	M	2.19	3.79	2.69	3.99	2.29	2.10	0.91	4.45	5.21
9/29/86	M	2.15	3.77	2.67	4.08	2.32	2.10	1.08	4.37	5.21
9/30/86	M	2.10	3.87	2.70	4.14	2.46	2.11	0.97	4.23	4.71
10/ 1/86	2.30	2.15	3.86	2.70	4.01	2.42	1.97	0.93	4.39	4.84
10/ 2/86	2.35	2.19	3.74	2.66	4.09	2.21	2.14	1.04	4.45	5.18
10/ 3/86	2.31	2.16	3.76	2.63	4.22	2.17	2.13	1.16	4.43	5.23
10/ 4/86	2.32	2.21	3.71	2.61	4.04	2.18	2.13	1.12	4.42	5.34
10/ 5/86	2.27	2.17	3.67	2.57	3.95	2.13	2.15	1.09	4.48	5.35
10/ 6/86	2.19	2.19	3.66	2.55	3.92	2.18	2.11	1.06	4.35	5.36
10/ 7/86	2.09	2.21	3.60	2.53	3.84	2.28	2.13	1.11	4.19	5.36
10/ 8/86	2.05	2.20	3.52	2.51	3.78	2.30	2.13	1.12	4.12	5.36
10/ 9/86	2.01	2.18	3.46	2.50	3.65	2.29	2.12	1.18 P	4.11	5.36
10/10/86	1.98	2.20	3.36	2.48	3.38	2.28	2.10	M	4.21	5.36 E
10/11/86	1.95	2.17	3.38	2.46	3.29	2.27	2.11	M	4.21	4.55
10/12/86	1.94	2.18	3.44	2.45	3.27	2.25	2.10	M	4.22	3.61
10/13/86	1.92	2.15	3.27	2.44	3.21	2.24	2.09	M	4.21	4.61 E
10/14/86	1.90	2.19	3.09	2.41	3.12	2.22	2.10	M	4.17	5.26
10/15/86	1.90	2.03	3.29	2.49	3.15	2.31	1.83	M	4.17	5.20
10/16/86	1.91	1.78	3.76	2.64	3.43	2.41	1.52	M	4.29	4.86
10/17/86	1.97	1.78	3.45	2.61	3.29	2.39	1.61	M	4.26	5.29
10/18/86	2.05	1.75	3.38	2.50	3.34	2.17	1.55	M	4.16	5.30
10/19/86	2.07	1.94	3.42	2.49	3.38	2.16	1.86	M	4.15	5.00
10/20/86	2.10	1.92	3.53	2.50	3.44	2.15	1.77	M	4.12	4.59
10/21/86	2.09	1.86	3.35	2.46	3.38	2.11	1.65	M	4.09	5.27
10/22/86	2.07	1.81	3.29	2.41	3.29	2.07	1.61	M	4.08	5.29 E
10/23/86	2.03	1.83	3.19	2.39	3.13	2.10	1.63	M	4.11	5.30
10/24/86	1.97	1.76	3.11	2.36	3.05	2.14	1.54	M	4.08	5.31
10/25/86	1.93	1.65	3.06	2.35	3.01	2.14	1.42	M	4.05	5.31
10/26/86	1.90	1.57	3.01	2.34	2.97	2.13	1.36	M	4.03	5.28
10/27/86	1.88	1.50	3.06	2.33	2.95	2.11	1.33	M	4.00	5.01
10/28/86	1.86	1.48	2.99	2.31	2.91	2.10	1.28	M	4.02	5.12
10/29/86	1.86	1.50	3.41	2.35	3.21	2.15	1.37	M	4.32	3.90
10/30/86	1.84	1.52	3.43	2.40	3.25	2.50	1.38	M	4.31	4.53
10/31/86	1.83	1.54	3.26	2.41	3.27	2.37	1.37	M	4.35	5.26 E
11/ 1/86	1.96	1.58	3.27	2.40	3.20	2.18	1.38	M	4.31	5.30 E
11/ 2/86	1.96	1.53	3.30	2.36	3.23	1.99	1.34	M	4.38	4.95

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
11/ 3/86	1.91	1.53	3.31	2.33	3.20	2.00	1.36	M	4.32	4.93 E
11/ 4/86	1.84	1.62	3.32	2.32	3.10	2.07	1.38	M	4.17	4.83
11/ 5/86	1.82	1.72	3.30	2.32	3.09	2.08	1.36	M	4.14	4.79
11/ 6/86	1.82	1.69	3.24	2.32	3.10	2.08	1.39	M	4.13	4.86
11/ 7/86	1.81	1.69	3.25	2.30	3.09	2.06	1.41	M	4.08	4.48
11/ 8/86	1.81	1.69	3.29	2.30	3.08	2.06	1.48	M	4.01	3.60
11/ 9/86	1.81	1.67	3.29	2.33	3.09	2.10	1.41	M	4.01	3.59
11/10/86	1.79	1.61	3.22	2.32	3.07	2.09	1.41	M	4.07	4.28
11/11/86	1.78	1.62	3.14	2.29	3.02	2.07	1.43	M	4.16	4.82
11/12/86	1.77	1.59	3.12	2.27	3.02	2.06	1.37	M	4.17	4.82
11/13/86	1.80	1.57	3.20	2.27	3.14	2.04	1.37	1.00 P	4.20	4.83
11/14/86	1.78	1.60	3.25	2.28	3.20	2.06	1.43	1.26	4.25	4.83
11/15/86	1.81	1.61	3.36	2.36	3.31	2.16	1.41	1.34	4.32	4.84
11/16/86	1.79	1.59	3.45	2.36	3.35	2.14	1.43	1.21	4.38	3.83
11/17/86	1.84	1.52	3.44	2.35	3.39	2.10	1.36	1.14	4.43	4.29
11/18/86	1.91	1.55	3.39	2.34	3.40	2.08	1.35	1.07	4.44	4.80
11/19/86	1.91	1.51	3.40	2.34	3.38	2.06	1.35	1.00	4.43	4.37
11/20/86	1.92	1.52	3.39	2.32	3.39	2.06	1.31	0.92	4.41	4.20
11/21/86	1.92	1.50	3.29	2.29	3.35	2.07	1.34	0.82	4.39	4.80
11/22/86	1.98	1.53	3.27	2.31	3.32	2.20	1.32	0.95	4.40	4.82
11/23/86	2.17	1.62	3.25	2.37	3.18	2.46	1.41	1.05	4.31	4.83
11/24/86	2.18	1.64	3.19	2.37	3.14	2.36	1.40	1.09	4.35	4.84
11/25/86	2.04	1.58	3.21	2.37	3.31	2.39	1.30	0.92	4.45	4.84
11/26/86	2.08	1.58	3.19	2.37	3.19	2.40	1.32	0.82	4.40	4.83
11/27/86	2.02	1.52	3.18	2.36	3.26	2.26	1.35	0.79	4.48	4.84
11/28/86	1.99	1.57	3.23	2.34	3.34	2.17	1.31	0.84	4.52	4.84
11/29/86	2.26	1.62	3.59	2.46	3.38	2.51	1.31	0.80	4.91	4.85
11/30/86	2.38	1.66	3.44	2.46	3.10	2.41	1.33	0.70	4.46	4.86
12/ 1/86	2.22	1.68	3.44	2.42	3.24	2.35	1.32	0.86	4.31	4.63
12/ 2/86	2.33	1.67	3.57	2.47	3.41	2.39	1.32	0.82	4.31	4.36
12/ 3/86	2.26	1.56	3.49	2.48	3.36	2.32	1.32	0.94 P	4.28	4.36
12/ 4/86	2.06	1.46	3.47	2.42	3.40	2.31	1.31	M	4.36	4.35
12/ 5/86	2.01	1.46	3.47	2.41	3.40	2.29	1.36	M	4.38	4.35
12/ 6/86	1.99	1.58	3.44	2.39	3.38	2.28	1.40	M	4.39	4.36
12/ 7/86	2.05	1.63	3.43	2.39	3.34	2.28	1.45	M	4.34	4.36
12/ 8/86	2.07	1.58	3.41	2.38	3.40	2.15	1.40	M	4.33	4.29
12/ 9/86	1.97	1.53	3.43	2.37	3.44	2.22	1.38	M	4.28	4.13
12/10/86	1.95	1.57	3.43	2.37	3.44	2.21	1.30	M	4.22	4.24
12/11/86	1.93	1.49	3.40	2.37	3.42	2.21	1.26	M	4.15	4.35
12/12/86	1.90	1.48	3.37	2.36	3.40	2.20	1.19	M	4.13	4.35
12/13/86	1.88	1.48	3.32	2.33	3.37	2.16	1.23	M	4.11	4.20
12/14/86	1.87	1.49	3.30	2.32	3.34	2.16	1.35	M	4.10	4.11
12/15/86	1.86	1.48	3.26	2.31	3.26	2.15	1.25	M	4.14	4.13
12/16/86	1.84	1.47	3.20	2.30	3.21	2.14	1.22	M	4.25	4.21
12/17/86	1.83	1.50	3.17	2.28	3.26	2.12	1.25	M	4.23	4.33
12/18/86	1.82	1.51	3.17	2.27	3.25	2.11	1.26	M	4.21	4.34
12/19/86	1.81	1.50	3.17	2.26	3.23	2.09	1.27	M	4.20	4.03
12/20/86	1.79	1.50	3.16	2.26	3.22	2.07	1.26	M	4.17	3.57

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
12/21/86	1.78	1.51	3.13	2.24	3.20	2.07	1.28		M 4.17	3.57
12/22/86	1.77	1.54	3.10	2.23	3.17	2.04	1.32		M 4.14	4.00
12/23/86	1.79	1.67	3.09	2.23	3.08	2.05	1.42		M 4.17	4.30
12/24/86	1.90	1.57	3.39	2.57	3.22	2.19	1.29		M 4.26	4.32
12/25/86	1.97	1.57	3.19	2.83	3.28	2.30	1.32		M 4.35	4.31
12/26/86	2.07	1.55	3.07	2.75	3.09	2.30	1.27		M 4.11	4.08
12/27/86	2.24	1.58	2.97	2.68	2.90	2.26	1.36		M 3.60	4.07
12/28/86	2.05	1.55	3.10	2.71	3.18	2.26	1.31		M 3.86	4.09
12/29/86	2.06	1.57	3.15	2.62	3.22	2.16	1.32		M 3.90	4.22
12/30/86	2.04	1.57	3.30	2.48	3.25	2.10	1.29		M 3.89	4.32
12/31/86	2.08	1.65	3.30	2.55	3.27	2.11	1.44		M 3.89	4.33
1/ 1/87	2.43	1.74	3.43	3.02	3.31	2.36	1.29		M 4.47	3.99
1/ 2/87	2.51	1.70	3.09	2.88	2.99	2.44	1.35		M 4.80	3.91
1/ 3/87	2.52	1.69	3.07	2.76	2.97	2.44	1.34		M 4.92	4.31
1/ 4/87	2.52	1.71	3.15	2.79	2.99	2.46	1.34		M 4.72	3.99
1/ 5/87	2.54	1.71	3.14	2.84	3.01	2.46	1.34		M 4.75	4.00
1/ 6/87	2.54	1.72	3.11	2.75	2.95	2.45	1.47		M 4.66	4.31
1/ 7/87	2.42	1.69	3.19	2.66	3.09	2.35	1.43		M 4.43	4.32
1/ 8/87	2.18	1.66	3.42	2.59	3.38	2.38	1.35	1.22 P	4.29	4.33
1/ 9/87	2.10	1.64	3.50	2.57	3.41	2.43	1.33	1.09	4.27	4.34
1/10/87	2.08	1.58	3.43	2.60	3.19	2.54	1.27	0.94	4.26	4.34
1/11/87	2.12	1.52	3.34	2.58	3.15	2.35	1.19	0.72	4.20	4.34
1/12/87	2.04	1.56	3.36	2.52	3.30	2.31	1.30	0.56	4.17	4.32
1/13/87	2.00	1.80	3.40	2.48	3.31	2.32	1.49	0.59	4.09	4.34
1/14/87	1.98	1.77	3.40	2.46	3.32	2.35	1.51	0.73 P	4.06	4.34
1/15/87	1.96	1.81	3.39	2.46	3.25	2.33	1.51	0.69 E	4.10	4.35
1/16/87	1.94	1.76	3.36	2.45	3.21	2.32	1.48	0.51 >	4.18	4.35
1/17/87	1.93	1.74	3.34	2.43	3.20	2.31	1.52	0.44 >	4.18	4.35
1/18/87	1.92	1.73	3.33	2.41	3.19	2.30	1.51	0.45 >	4.18	4.36
1/19/87	1.90	1.80	3.30	2.39	3.15	2.27	1.50	0.46 >	4.18	4.36
1/20/87	1.88	1.67	3.26	2.38	3.12	2.26	1.50	0.48 >	4.15	4.36
1/21/87	1.88	1.67	3.23	2.36	3.10	2.25	1.52	0.60 >	4.17	4.36
1/22/87	1.85	1.73	3.25	2.36	3.10	2.24	1.47	0.48	4.17	3.96
1/23/87	1.84	1.76	3.26	2.35	3.11	2.22	1.53	0.74	4.20	4.01
1/24/87	1.84	1.79	3.20	2.34	3.06	2.19	1.53	0.74	4.23	4.34
1/25/87	1.84	1.77	3.21	2.34	3.08	2.17	1.52	0.74	4.25	4.34
1/26/87	1.81	1.79	3.21	2.32	3.11	2.15	1.43	0.51	4.29	4.34
1/27/87	1.80	1.80	3.20	2.29	3.18	2.13	1.54	0.53	4.30	4.34
1/28/87	1.79	1.79	3.17	2.28	3.13	2.12	1.54	0.59	4.24	4.34
1/29/87	1.77	1.80	3.15	2.27	3.15	2.10	1.55	0.59	4.26	4.35
1/30/87	1.76	1.79	3.17	2.26	3.17	2.10	1.53	0.65	4.26	4.34
1/31/87	1.74	1.78	3.18	2.24	3.16	2.09	1.54	0.60	4.25	4.00
2/ 1/87	1.74	1.79	3.18	2.23	3.15	2.08	1.55	0.74	4.24	3.58
2/ 2/87	1.72	1.78	3.17	2.22	3.15	2.07	1.54	0.67	4.22	3.94
2/ 3/87	1.71	1.77	3.13	2.20	3.09	2.06	1.53	0.59	4.18	4.22
2/ 4/87	1.70	1.76	3.07	2.18	2.99	2.03	1.55	0.68	4.13	3.94
2/ 5/87	1.70	1.79	3.05	2.17	3.01	2.02	1.54	0.67	4.03	3.83
2/ 6/87	1.68	1.79	3.02	2.14	2.93	2.01	1.53	0.59	3.85	4.21

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
2/ 7/87	1.72	1.77	3.03	2.17	2.90	2.06	1.44	0.56	3.81	4.21
2/ 8/87	1.73	1.71	3.01	2.17	2.89	2.06	1.49	0.46	3.81	4.22
2/ 9/87	1.72	1.65	2.94	2.15	2.88	2.03	1.52	0.43	3.94	4.23
2/10/87	1.73	1.63	2.94	2.13	2.96	1.98	1.54	0.64	4.10	4.23
2/11/87	1.70	1.79	2.97	2.12	2.98	1.98	1.55	0.62	4.10	4.23
2/12/87	1.69	1.85	2.97 E	2.12	2.99	1.97	1.55	0.57	4.10	4.23
2/13/87	1.68	1.88	2.94 E	2.11	3.00	1.95	1.60	0.59	4.09	4.24
2/14/87	1.67	1.90	2.93 E	2.09	2.99	1.94	1.56	0.63	4.02	4.24
2/15/87	1.67	1.94	2.93 E	2.09	2.99	1.96	1.56	0.72	4.00	4.24
2/16/87	1.67	2.00	2.95 E	2.12	3.04	1.98	1.53	0.53	4.01	4.25
2/17/87	1.66	2.03	2.97 E	2.11	3.03	1.98	1.55	0.64	4.04	4.25
2/18/87	1.67	2.03	2.97 E	2.11	3.03	1.97	1.54	0.69	4.08	4.25
2/19/87	1.67	1.93	2.97 E	2.10	3.05	1.96	1.55	0.66	4.10	4.26
2/20/87	1.67	1.86	2.95 E	2.08	3.02	1.95	1.55	0.54	4.10	4.26
2/21/87	1.66	1.86	2.92 E	2.08	3.02	1.93	1.54	0.46	4.03	4.26
2/22/87	1.64	1.86	2.90 E	2.06	3.01	1.91	1.55	0.52	3.98	4.26
2/23/87	1.66	1.83	2.89 E	2.04	2.99	1.87	1.56	0.45	3.99	4.27
2/24/87	1.71	1.85	2.88 E	2.03	2.97	1.87	1.57	0.83	3.98	4.27
2/25/87	1.75	1.86	2.91 E	2.04	2.99	1.93	1.55	0.84	4.02	4.27
2/26/87	1.79	1.87	2.97 E	2.09	3.04	1.99	1.59	0.97	4.05	4.26
2/27/87	1.78	1.87	2.96	2.09	3.03	1.95	1.55	0.85	4.04	4.27
2/28/87	1.78	1.87	2.95	2.07	3.02	1.93	1.59	0.81	4.02	4.27
3/ 1/87	1.71	1.86	2.92	2.06	3.01	1.96	1.58	0.64	4.01	4.28
3/ 2/87	1.69	1.81	3.04	2.11	3.06	2.07	1.51	0.72	4.08	4.21
3/ 3/87	1.72	1.89	3.28	2.23	3.24	2.19	1.55	0.94	4.26	4.14
3/ 4/87	1.74	1.92	3.31	2.22	3.19	2.13	1.56	1.04	4.34	4.14
3/ 5/87	1.73	1.93	3.28	2.21	3.18	2.09	1.64	1.45	4.19	4.14
3/ 6/87	1.75	1.96	3.22	2.20	3.16	2.10	1.79	1.86	3.97	4.14
3/ 7/87	2.20	2.07	3.60	2.80	3.32	2.38	1.53	1.37	4.70	4.15
3/ 8/87	2.43	1.83	3.11	2.86	3.04	2.39	1.17	0.45	4.88	3.88
3/ 9/87	2.43	1.74	2.98	2.72	2.93	2.37	1.25	0.44	4.54	3.86
3/10/87	2.28	1.77	3.03	2.57	2.95	2.31	1.40	0.50	4.27	4.07
3/11/87	2.02	1.85	3.29	2.41	3.18	2.30	1.51	0.71	4.27	4.12
3/12/87	1.94	1.85	3.37	2.37	3.24	2.28	1.52	0.75 P	4.27	4.12
3/13/87	1.90	1.84	3.38	2.35	3.23	2.26	1.54	M	4.26	4.13
3/14/87	1.88	1.85	3.36	2.33	3.23	2.24	1.60	M	4.21	3.88
3/15/87	1.87	1.89	3.35	2.31	3.21	2.22	1.56	M	4.17	3.59
3/16/87	1.85	1.88	3.31	2.31	3.17	2.21	1.56	M	4.12	3.88
3/17/87	1.84	1.84	3.25	2.29	3.11	2.18	1.55	M	4.07	4.09
3/18/87	1.83	1.85	3.20	2.27	3.06	2.16	1.55	M	4.07	4.09
3/19/87	1.81	1.84	3.16	2.26	3.07	2.14	1.53	M	4.14	4.10
3/20/87	1.78	1.83	3.14	2.23	3.12	2.11	1.55	M	4.14	4.11
3/21/87	1.77	1.82	3.15	2.21	3.14	2.07	1.56	M	4.12	4.11
3/22/87	1.75	1.82	3.15	2.19	3.13	2.05	1.57	M	4.08	4.11
3/23/87	1.79	1.84	3.30	2.23	3.19	2.11	1.59	M	4.21	4.03
3/24/87	1.84	1.86	3.33	2.50	3.15	2.35	1.63	M	4.18	4.12
3/25/87	1.86	1.67	3.06	2.73	3.07	2.55	1.39	M	4.08	4.12
3/26/87	1.86	1.74	3.01	2.61	3.01	2.46	1.40	M	3.97	4.11

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/27/87	1.85	1.84	3.24	2.44	3.14	2.32	1.56		M 3.89	4.12
3/28/87	1.83	1.83	3.27	2.39	3.14	2.27	1.56		M 3.83	4.13
3/29/87	1.83	1.83	3.24	2.36	3.12	2.24	1.54		M 3.79	4.13
3/30/87	1.82	1.84	3.20	2.34	3.09	2.21	1.54		M 3.75	4.13
3/31/87	1.80	1.82	3.23	2.34	3.11	2.19	1.43		M 3.81	4.09
4/ 1/87	1.79	1.81	3.24	2.32	3.09	2.17	1.49		M 4.01	4.11
4/ 2/87	1.77	1.82	3.22	2.31	3.09	2.16	1.53		M 4.02	4.11
4/ 3/87	1.76	1.81	3.19	2.30	3.06	2.15	1.53		M 4.00	4.12
4/ 4/87	1.73	1.82	3.12	2.25	3.00	2.10	1.52		M 3.95	4.12
4/ 5/87	1.71	1.82	3.06	2.23	2.96	2.07	1.51		M 3.91	4.12
4/ 6/87	1.70	1.83	3.02	2.20	2.93	2.06	1.55		M 3.90	4.13
4/ 7/87	1.69	1.84	2.99	2.19	2.92	2.03	1.54		M 4.06	4.12
4/ 8/87	1.68	1.81	3.03	2.17	3.02	2.01	1.52		M 4.09	4.13
4/ 9/87	1.66	1.82	3.04	2.16	3.03	1.98	1.55		M 4.00	4.13
4/10/87	1.64	1.82	3.00	2.13	2.99	1.95	1.54		M 3.97	4.13
4/11/87	1.63	1.82	2.96	2.11	2.96	1.93	1.59		M 3.91	4.13
4/12/87	1.62	1.82	2.93	2.09	2.95	1.91	1.61		M 3.89	4.13
4/13/87	1.61	1.85	2.91	2.07	2.94	1.89	1.62		M 3.93	4.13
4/14/87	1.60	1.84	2.90	2.05	2.93	1.87	1.62		M 4.05	4.13
4/15/87	1.58	1.81	2.91	2.05	2.94	1.85	1.54		M 4.07 E	4.13
4/16/87	1.55	1.78	2.90	2.02	2.93	1.83	1.52	0.37 P	4.07 E	4.13
4/17/87	1.55	1.80	2.89	2.01	2.92	1.82	1.52	0.42	4.07 E	4.13
4/18/87	1.54	1.80	2.88	1.98	2.91	1.79	1.56	0.49	4.08	4.13
4/19/87	1.52	1.83	2.83	1.94	2.89	1.74	1.55	0.59	4.07	4.13
4/20/87	1.50	1.82	2.80	1.91	2.88	1.71	1.53	0.74	4.07	4.13
4/21/87	1.48	1.82	2.79	1.88	2.93	1.66	1.52	0.73	4.11	4.13
4/22/87	1.46	1.81	2.80	1.85	2.97	1.63	1.50	0.58	4.11	4.14
4/23/87	1.45	1.80	2.80	1.82	2.96	1.61	1.49	0.69	4.08	4.14
4/24/87	1.42	1.80	2.79	1.80	2.94	1.57	1.46	0.56	4.07	4.01
4/25/87	1.39	1.80	2.77	1.77	2.93	1.53	1.42	0.41	4.03	3.60
4/26/87	1.36	1.80	2.73	1.73	2.91	1.49	1.40	0.52	4.01	3.58
4/27/87	1.34	1.79	2.71	1.70	2.92	1.47	1.39	0.87	4.02	3.71
4/28/87	1.35	1.78	2.73	1.67	2.95	1.42	1.37	0.86	4.03	3.83
4/29/87	1.37	1.78	2.70	1.64	2.91	1.39	1.35	0.76	4.02	4.06
4/30/87	1.32	1.78	2.68	1.62	2.92	1.45	1.33	0.64	4.41	4.07
5/ 1/87	1.26	1.77	2.85	1.68	3.17	1.70	1.31	0.59	4.96	4.08
5/ 2/87	1.24	1.77	3.04	1.77	3.28	1.88	1.31	0.69	4.95	4.09
5/ 3/87	1.22	1.77	3.13	1.84	3.36	1.96	1.30	0.68	4.98	4.09
5/ 4/87	1.19	1.77	3.18	1.87	3.41	2.01	1.30	0.70	4.96	4.10
5/ 5/87	1.17	1.77	3.20	1.89	3.44	2.04	1.30	0.70	4.96	4.10
5/ 6/87	1.15	1.77	3.16	1.90	3.33	1.97	1.30	0.68	4.66	4.10
5/ 7/87	1.19	1.76	3.24	1.91	3.43	2.12	1.44	0.60	4.97	4.11
5/ 8/87	1.33	1.81	3.42	2.14	3.64	2.28	1.76	0.52	4.26	4.04
5/ 9/87	1.44	1.86	3.47	2.37	3.72	2.39	1.83	0.66	3.81	3.61
5/10/87	1.44	1.96	3.75	2.39	3.84	2.36	1.87	0.80	3.91	3.66
5/11/87	1.48	2.04	3.96	2.44	4.00	2.35	1.99	0.89	4.04	3.97
5/12/87	1.50	2.08	3.88	2.41	3.98	2.34	1.94	0.89	4.00	4.10
5/13/87	1.80	2.09	4.01	2.70	4.09	2.37	1.92	0.87	4.09	4.07

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
5/14/87	2.28	2.18	3.80	2.98	3.95	2.31	1.93	0.86	4.11	4.07
5/15/87	2.18	2.19	3.72	2.80	3.98	2.10	1.94	0.76	4.08	4.23
5/16/87	2.01	2.19	4.13	2.63	4.19	2.12	1.94	0.77	4.21	4.25
5/17/87	1.77	2.23	4.10	2.56	4.18	2.38	1.97	0.82	4.19	4.25
5/18/87	1.71	2.22	4.01	2.53	4.03	2.40	1.98	0.75	4.18	4.25
5/19/87	1.70	2.21	3.93	2.51	3.81	2.40	2.00	0.70	4.23	4.25
5/20/87	1.72	2.22	3.85	2.49	3.74	2.40	2.06	0.73	4.22	4.25
5/21/87	1.71	2.18	3.76	2.46	3.66	2.36	2.09	0.87	4.16	4.25
5/22/87	1.69	2.22	3.67	2.43	3.55	2.33	2.13	0.91	4.08	4.25
5/23/87	1.69	2.23	3.60	2.41	3.48	2.30	2.12	0.99	4.03	4.25
5/24/87	1.68	2.22	3.52	2.38	3.40	2.27	2.12	0.98	3.98	4.25
5/25/87	1.66	2.22	3.43	2.35	3.33	2.23	2.11	1.00	3.92	4.24
5/26/87	1.65	2.21	3.35	2.32	3.25	2.20	2.10	0.99	3.86	4.02
5/27/87	1.64	2.21	3.26	2.29	3.15	2.16	2.07	1.00	3.79	4.23
5/28/87	1.62	2.21	3.21	2.27	3.08	2.13	2.10	1.00	3.73	4.24
5/29/87	1.62	2.21	3.19	2.25	3.05	2.10	2.11	1.06	3.69	4.24
5/30/87	1.61	2.20	3.18	2.23	3.02	2.08	2.08	1.16	3.66	4.25
5/31/87	1.62	2.22	3.11	2.22	2.99	2.09	2.11	1.26	3.64	4.25
6/ 1/87	1.63	2.17	3.09	2.24	2.95	2.10	2.09	0.99	3.59	4.25
6/ 2/87	1.62	2.20	3.10	2.24	2.93	2.08	2.06	0.87	3.66	4.25
6/ 3/87	1.61	2.19	3.11	2.21	2.93	2.05	2.02	0.82	3.90	4.78
6/ 4/87	1.60	2.17	3.04	2.17	2.91	2.01	1.99	0.80	3.95	5.24
6/ 5/87	1.58	2.14	3.03	2.13	2.86	1.96	1.94	0.73	3.94	5.26
6/ 6/87	1.57	2.11	3.00	2.10	2.84	1.91	1.89	0.80	3.87	5.28
6/ 7/87	1.55	2.09	2.96	2.06	2.80	1.87	1.87	1.13	3.89	5.29
6/ 8/87	1.54	2.07	2.97	2.03	2.78	1.83	1.83	1.27	3.98	5.30 E
6/ 9/87	1.52	2.15	3.10	2.01	2.80	1.79	1.93	1.03	4.02	4.68 E
6/10/87	1.51	2.13	3.00	1.98	2.81	1.76	1.99	0.87	4.05	5.23
6/11/87	1.50	2.22	2.97	1.95	2.84	1.76	1.95	0.84	4.01	5.24
6/12/87	1.48	2.21	2.96	1.94	2.89	1.80	1.90	0.79	3.96	5.25
6/13/87	1.45	2.17	2.95	1.92	2.89	1.78	1.84	0.66	3.92	5.26
6/14/87	1.43	2.13	2.95	1.91	2.89	1.80	1.79	0.52	3.90	5.27
6/15/87	1.40	2.09	2.94	1.90	2.86	1.79	1.73	0.39	3.96	5.26
6/16/87	1.37	2.04	2.93	1.86	2.84	1.77	1.68	0.32	4.01	5.27
6/17/87	1.34	2.00	2.91	1.83	2.82	1.73	1.64	0.38	3.97	5.30
6/18/87	1.32	1.97	2.89	1.80	2.81	1.70	1.60	0.42	3.94	5.28
6/19/87	1.30	1.95	2.91	1.79	2.79	1.69	1.58	0.38	3.92	5.18 E
6/20/87	1.27	1.93	3.00	1.78	2.80	1.68	1.56	0.41	3.92	4.59
6/21/87	1.22	1.89	2.98	1.75	2.79	1.64	1.49	0.36	3.91	4.44
6/22/87	1.19	1.87	2.92	1.72	2.77	1.62	1.49	0.25	3.90	4.49
6/23/87	1.15	1.87	2.88	1.70	2.88	1.68	1.49	0.18	4.19	4.82 E
6/24/87	1.15	1.88	3.06	1.79	3.23	1.93	1.49	0.14	4.41	5.28
6/25/87	1.27	1.94	3.23	1.94	3.35	2.09	1.68	0.18	4.17	5.09
6/26/87	1.39	2.08	3.42	2.14	3.34	2.16	2.08	0.15	3.94	3.97
6/27/87	1.53	1.91	3.52	2.11	3.35	2.15	2.05	0.10	4.20	3.81
6/28/87	2.21	2.21	4.04	2.10	3.04	2.24	2.03	0.33	4.56	4.79
6/29/87	2.35	2.25	4.52	2.56	3.24	2.36	2.05	0.47	4.65	4.51
6/30/87	2.38	2.27	4.08	2.88	3.30	2.36	2.11	0.52	4.48	4.73

Table D.12 Average Daily Downstream Water Levels (ft. NGVD), Various Water Control Structures, from July 11, 1985 through July 11, 1987.

Date	S-18C	S-165	S-174	S-175	S-176	S-177	S-179	S-197	S-331	S-332
	USGS	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/ 1/87	2.24	2.27	3.94	2.62	3.72	2.14	2.13	0.53	4.41	5.29
7/ 2/87	2.21	2.20	3.97	2.36	3.79	2.11	2.15	0.33	4.34	5.31
7/ 3/87	2.12	2.16	3.95	2.29	3.84	2.09	2.13	0.36	4.23	5.31
7/ 4/87	2.02	2.26	3.98	2.28	3.94	2.17	2.14	0.34	4.23	5.30
7/ 5/87	1.91	2.22	4.12	2.28	4.07	2.21	2.13	0.36	4.15	4.21
7/ 6/87	1.84	2.14	3.97	2.27	3.87	2.14	2.12	0.46	4.09	4.79
7/ 7/87	1.72	2.07	3.83 E	2.24	3.64	2.12	2.11	0.40	4.08	5.29
7/ 8/87	1.68	2.02	3.78 E	2.23	3.56	2.09	2.11	0.54	4.05	5.31
7/ 9/87	1.65	2.00	3.74 E	2.20	3.49	2.06	2.08	0.68 E	4.00	5.31
7/10/87	1.63	2.11	3.69 E	2.17	3.41	2.02	2.04	0.77	3.95	5.32
7/11/87	1.61	2.17	3.66 E	2.14	3.36	1.98	2.04	0.79	3.92	5.32

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
7/11/85	4.56	4.35	3.01	2.71	2.38	4.55	4.51	4.58	4.49
7/12/85	4.56	4.34	3.09	2.81	2.40	4.58	4.54	4.56	4.49
7/13/85	4.59	4.36	3.52	2.94	2.38	4.58	4.55	4.50	4.46
7/14/85	4.63	4.37	3.48 P	3.07	2.35	4.57	4.55	4.44	4.42
7/15/85	4.63	4.32	M	3.14	2.32	4.54	4.53	4.38	4.38
7/16/85	4.60	4.26	3.30 P	2.97	2.28	4.50	4.49	4.38	4.36
7/17/85	4.57	4.23	3.29	2.86	2.22	4.53	4.50	4.49	4.40
7/18/85	4.55	4.18	3.32	2.93	2.37	4.46	4.44	4.38	4.31
7/19/85	4.51	4.15	3.38	3.24	3.20	4.46	4.44	4.25	4.24
7/20/85	4.50	4.17	3.32	3.07	3.09	4.51	4.49	4.26	4.24
7/21/85	4.46	4.33	3.34	2.83	2.83	4.58	4.56	4.28	4.25
7/22/85	4.45	4.20	3.37	2.61	2.60	4.65	4.62	4.30	4.26
7/23/85	3.77	3.91	2.88	2.88	2.87	5.03	5.00	4.82	4.73
7/24/85	2.97	4.24	3.33	3.21	2.82	5.45	5.42	5.14	5.10
7/25/85	3.02	4.25	3.60	2.95	2.69	5.52	5.45	5.08	4.98
7/26/85	4.65	4.27	3.75	3.21	2.67	5.31	5.26	4.86	4.78
7/27/85	4.77	4.22	3.70	2.74	2.64	5.12	5.08	4.67	4.61
7/28/85	4.74	4.04	3.57	2.66	2.59	4.93	4.90	4.49	4.44
7/29/85	4.67	4.13	3.40	2.65	2.51	4.74	4.72	4.34	4.31
7/30/85	4.63	4.29	3.20	2.84	2.40	4.59	4.58	4.32	4.32
7/31/85	4.60	4.24	3.09	2.91	2.37	4.53	4.53	4.34	4.33
8/ 1/85	4.60	4.29	3.05	2.98	2.41	4.59	4.59	4.51	4.50
8/ 2/85	4.70	4.48	3.19	3.29	2.46	4.86	4.85	4.58	4.54
8/ 3/85	4.72	4.50	3.23	3.24	2.48	4.85	4.83	4.50	4.48
8/ 4/85	4.72	4.44	3.20	3.16	2.50	4.81	4.78	4.42	4.40
8/ 5/85	4.66	4.38	3.21	3.12	2.52	4.76	4.73	4.37	4.36
8/ 6/85	4.67	4.40	3.29	3.23	2.55	4.69	4.68	4.44	4.42
8/ 7/85	4.73	4.37	3.25	3.34	2.53	4.66	4.64	4.43	4.42
8/ 8/85	4.74	4.25	3.18	3.17	2.47	4.59	4.58	4.36	4.35
8/ 9/85	4.72	4.18	3.12	3.01	2.45	4.54	4.53	4.35	4.34
8/10/85	4.69	4.11	3.07	2.97	2.45	4.52	4.50	4.35	4.32
8/11/85	4.66	4.03	3.00	2.95	2.45	4.49	4.46	4.34	4.30
8/12/85	4.62	4.03	2.94	2.91	2.45	4.45	4.42	4.32	4.27
8/13/85	4.55	4.00	2.88	2.83	2.43	4.41	4.38	4.30	4.24
8/14/85	4.48	3.96	2.79	2.76	2.32	4.38	4.36	4.36	4.31
8/15/85	4.43	3.94	2.80	2.68	2.24	4.37	4.34	4.40	4.33
8/16/85	4.39	3.90	2.78	2.64	2.20	4.32	4.29	4.28	4.22
8/17/85	4.38	3.87	2.76	2.60	2.17	4.32	4.29	4.31	4.25
8/18/85	4.35	3.86	2.73	2.56	2.13	4.31	4.29	4.36	4.30
8/19/85	4.33	3.89	2.81	2.56	2.12	4.28	4.27	4.33	4.28
8/20/85	4.31	3.85	2.87	2.70	2.19	4.20	4.19	4.16	4.15
8/21/85	4.29	3.81	2.82	2.61	2.16	4.20	4.19	4.24	4.21
8/22/85	4.29	3.79	2.79	2.57	2.10	4.21	4.19	4.36	4.30
8/23/85	4.27	3.74	2.73	2.52	2.08	4.17	4.14	4.32	4.28
8/24/85	4.25	3.66	2.73	2.47	2.05	4.11	4.08	4.27	4.23
8/25/85	4.22	3.60	2.69	2.42	2.03	4.04	4.02	4.22	4.17
8/26/85	4.22	3.56	2.65	2.40	2.05	3.99	3.97	4.19	4.13
8/27/85	4.22	3.56	2.70	2.52	2.28	4.01	3.98	4.21	4.17

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
8/28/85	3.68	3.58	2.72	2.63	2.34	4.01	3.99	4.22	4.19
8/29/85	3.34	3.69	3.02	2.76	2.39	4.03	4.00	4.18	4.15
8/30/85	3.89	3.81	3.03	2.76	2.23	4.14	4.11	4.39	4.35
8/31/85	4.53	3.81	2.92	2.76	2.24	4.21	4.18	4.37	4.34
9/ 1/85	4.49	3.86	2.84	2.75	2.27	4.26	4.23	4.33	4.31
9/ 2/85	4.43	3.86	2.79	2.75	2.31	4.31	4.28	4.30	4.27
9/ 3/85	4.40	3.77	2.80	2.74	2.35	4.37	4.34	4.25	4.23
9/ 4/85	4.40	3.70	2.78	2.73	2.41	4.42	4.39	4.20	4.19
9/ 5/85	4.39	3.64	2.77	2.71	2.37	4.47	4.45	4.27	4.25
9/ 6/85	4.38	3.58	2.77	2.73	2.37	4.53	4.50	4.35	4.33
9/ 7/85	4.40	3.52	2.80	2.75	2.38	4.58	4.56	4.43	4.41
9/ 8/85	4.41	3.51	2.80	2.78	2.39	4.64	4.61	4.52	4.50
9/ 9/85	4.43	3.57	2.80	2.81	2.39	4.69	4.66	4.59	4.48
9/10/85	4.43	3.53	2.79	2.87	2.38	4.74	4.72	4.65	3.89
9/11/85	4.37	3.56	2.78	2.92	2.40	4.80	4.77	4.74	3.90
9/12/85	4.34	3.71	2.83	3.11	2.41	4.85	4.83	4.43	4.14
9/13/85	4.30	3.88	2.82	3.10	2.50	4.91	4.88	4.68	4.60
9/14/85	4.24	4.01	2.90	3.34	2.56	4.96	4.94	4.78	4.74
9/15/85	4.18	4.19	3.07	3.61	2.60	5.01	4.99	4.86	4.83
9/16/85	4.13	4.32	3.20	3.88	2.65	5.07	5.04	4.94	4.92
9/17/85	4.17	4.58	3.48	4.10	2.69	5.12	5.10	5.03	5.01
9/18/85	4.49	4.36	3.39	4.01	2.71	5.18	5.15	5.04	5.04
9/19/85	5.10	4.45	3.49	3.92	2.68	5.23	5.21	4.67	4.76
9/20/85	4.31	4.94	3.67	3.77	2.65	5.28	5.26	4.90	4.97
9/21/85	4.06	4.89	3.68	3.57	2.60	5.34	5.32	4.91	4.95
9/22/85	3.76	4.83	3.65	3.36	2.55	5.39	5.37	4.89	4.90
9/23/85	3.86	4.74	3.54	3.16	2.50	5.40	5.38	4.89	4.87
9/24/85	4.62	4.73	3.43	3.05	2.52	5.30	5.27	4.93	4.89
9/25/85	4.67	4.64	3.33	3.01	2.57	5.17	5.15	4.87	4.82
9/26/85	4.63	4.63	3.24	2.97	2.58	5.08	5.05	4.89	4.82
9/27/85	4.55	4.57	3.16	2.94	2.58	4.98	4.95	4.87	4.81
9/28/85	4.49	4.46	3.11	3.08	2.61	4.88	4.86	4.80	4.75
9/29/85	4.45	4.44	3.10	3.25	2.64	4.77	4.76	4.73	4.68
9/30/85	4.44	4.42	3.10	3.38	2.66	4.68	4.67	4.66	4.62
10/ 1/85	4.44	4.42	3.09	3.37	2.66	4.64	4.63	4.61	4.59
10/ 2/85	4.40	4.37	3.04	3.19	2.66	4.59	4.57	4.57	4.52
10/ 3/85	4.35	4.31	2.99	3.06	2.64	4.53	4.52	4.51	4.47
10/ 4/85	4.31	4.29	2.95	3.01	2.64	4.47	4.46	4.53	4.48
10/ 5/85	4.28	4.35	2.92	3.01	2.65	4.46	4.45	4.61	4.53
10/ 6/85	4.26	4.37	2.93	3.01	2.66	4.45	4.45	4.70	4.59
10/ 7/85	4.30	4.44	3.12	3.02	2.66	4.45	4.45	4.75	4.62
10/ 8/85	3.52	4.39	3.03	3.06	2.66	4.42	4.42	4.68	4.55
10/ 9/85	2.42	4.17	2.96	3.01	2.64	4.38	4.37	4.63	4.30
10/10/85	2.39	4.06	2.89	3.11	2.63	4.32	4.32	4.40	4.25
10/11/85	2.38	4.15	2.91	3.76	2.62	4.26	4.25	4.37	4.33
10/12/85	2.45	4.10	2.88	3.52	2.60	4.19	4.18	4.25	4.22
10/13/85	2.46	4.06	2.86	3.14	2.57	4.12	4.11	4.11	4.09
10/14/85	2.42	3.86	2.80	2.82	2.53	4.04	4.03	3.97	3.96

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
10/15/85	2.38	3.74	2.74	2.76	2.54	3.96	3.94	3.84	3.83
10/16/85	2.40	3.63	2.66	2.69	2.55	3.87	3.86	3.74	3.73
10/17/85	2.99	3.58	2.60	2.66	2.49	3.81	3.79	3.71	3.70
10/18/85	3.62	3.55	2.56	2.70	2.48	3.76	3.75	3.72	3.70
10/19/85	3.70	3.55	2.60	2.83	2.54	3.76	3.76	3.83	3.80
10/20/85	3.84	3.74	2.78	2.97	2.60	3.76	3.77	3.96	3.91
10/21/85	3.91	3.87	2.72	3.07	2.66	3.78	3.78	4.07	4.01
10/22/85	3.92	3.90	2.68	2.98	2.71	3.84	3.82	4.11	4.05
10/23/85	3.93	3.81	2.64	2.89	2.68	3.85	3.82	4.04	4.00
10/24/85	3.94	3.87	2.60	2.84	2.67	3.83	3.81	4.13	4.07
10/25/85	3.93	3.89	2.56	2.81	2.66	3.82	3.79	4.17	4.09
10/26/85	3.90	3.86	2.52	2.85	2.71	3.80	3.78	4.21	4.04
10/27/85	3.87	3.89	2.58	2.90	2.76	3.78	3.77	4.25	3.98
10/28/85	3.87	3.99	2.66	2.93	2.80	3.76	3.75	4.25	3.93
10/29/85	3.85	3.93	2.63	2.88	2.76	3.73	3.73	4.13	3.87
10/30/85	3.84	3.69	2.57	2.83	2.71	3.71	3.70	3.99	3.81
10/31/85	3.83	3.58	2.50	2.77	2.65	3.68	3.66	3.85	3.75
11/ 1/85	3.84	3.54	2.44	2.71	2.59	3.64	3.62	3.73	3.70
11/ 2/85	3.81	3.49	2.40	2.71	2.56	3.60	3.58	3.71	3.68
11/ 3/85	3.81	3.45	2.37	2.71	2.53	3.56	3.54	3.70	3.66
11/ 4/85	3.84	3.47	2.36	2.71	2.49	3.52	3.50	3.70	3.66
11/ 5/85	3.83	3.50	2.32	2.69	2.45	3.49	3.47	3.76	3.71
11/ 6/85	3.83	3.47	2.27	2.65	2.46	3.47	3.45	3.76	3.70
11/ 7/85	3.80	3.44	2.24	2.59	2.45	3.44	3.41	3.73	3.68
11/ 8/85	3.77	3.39	2.20	2.53	2.42	3.39	3.38	3.70	3.64
11/ 9/85	3.75	3.37	2.17	2.51	2.42	3.38	3.37	3.68	3.62
11/10/85	3.74	3.35	2.15	2.50	2.42	3.36	3.35	3.65	3.60
11/11/85	3.73	3.34	2.14	2.49	2.41	3.35	3.34	3.63	3.58
11/12/85	3.74	3.33	2.13	2.47	2.40	3.35	3.33	3.64	3.59
11/13/85	3.76	3.38	2.13	2.42	2.34	3.48	3.34	3.81	3.73
11/14/85	3.75	3.44	2.10	2.43	2.37	3.87	3.35	3.91	3.81
11/15/85	3.76	3.46	2.08	2.45	2.38	4.14	3.41	4.00	3.91
11/16/85	3.75	3.50	2.09	2.43	2.36	4.23	3.71	3.93	3.85
11/17/85	3.75	3.49	2.09	2.42	2.33	4.29	4.04	3.84	3.77
11/18/85	3.75	3.38	2.08	2.42	2.32	4.21	4.18	3.71	3.66
11/19/85	3.75	3.27	2.13	2.63	2.44	3.74	3.70	3.62	3.54
11/20/85	3.19	3.43	2.27	3.05	2.59	3.81	3.76	4.08	3.90
11/21/85	2.28	3.40	2.26	2.94	2.58	3.80	3.76	4.63	4.09
11/22/85	2.39	3.41	2.24	2.81	2.49	3.79	3.76	3.86	3.75
11/23/85	2.38	3.42	2.25	2.73	2.43	3.79	3.75	3.75	3.70
11/24/85	2.32	3.38	2.24	2.65	2.38	3.79	3.73	3.74	3.69
11/25/85	2.67	3.39	2.22	2.58	2.33	3.78	3.71	3.73	3.68
11/26/85	3.67	3.47	2.18	2.50	2.28	3.86	3.79	3.92	3.84
11/27/85	3.87	3.46	2.16	2.44	2.25	3.93	3.87	4.07	3.97
11/28/85	4.00	3.39	2.14	2.44	2.27	3.92	3.86	4.02	3.92
11/29/85	4.09	3.37	2.12	2.44	2.29	3.90	3.84	3.96	3.87
11/30/85	4.15	3.33	2.10	2.44	2.31	3.88	3.83	3.90	3.81
12/ 1/85	4.21	3.30	2.08	2.45	2.34	3.86	3.81	3.84	3.75

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
12/ 2/85	4.25	3.27	2.05	2.44	2.36	3.84	3.79	3.78	3.70
12/ 3/85	4.29	3.21	2.05	2.42	2.36	3.80	3.76	3.71	3.65
12/ 4/85	4.31	3.20	2.09	2.41	2.37	3.77	3.75	3.71	3.64
12/ 5/85	4.34	3.30	2.30	2.45	2.37	3.83	3.80	3.80	3.74
12/ 6/85	3.23	3.38	2.39	2.57	2.30	3.92	3.89	3.84	3.77
12/ 7/85	2.49	3.28	2.32	2.55	2.32	3.86	3.84	3.76	3.70
12/ 8/85	2.45	3.20	2.26	2.51	2.35	3.78	3.76	3.67	3.61
12/ 9/85	2.98	3.17	2.20	2.47	2.38	3.72	3.70	3.60	3.54
12/10/85	3.83	3.17	2.15	2.43	2.40	3.73	3.71	3.65	3.59
12/11/85	3.98	3.16	2.12	2.41	2.38	3.73	3.71	3.65	3.60
12/12/85	4.06	3.15	2.10	2.41	2.37	3.73	3.70	3.67	3.60
12/13/85	4.12	3.13	2.07	2.38	2.37	3.72	3.70	3.65	3.59
12/14/85	4.17	3.12	2.06	2.38	2.35	3.74	3.71	3.66	3.60
12/15/85	4.19	3.12	2.05	2.38	2.33	3.75	3.71	3.66	3.60
12/16/85	4.23	3.12	2.05	2.38	2.32	3.75	3.71	3.66	3.60
12/17/85	4.26 E	3.12	2.08	2.40	2.34	3.77	3.72	3.65	3.60
12/18/85	4.26 E	3.13	2.09	2.39	2.34	3.76	3.74	3.67	3.60
12/19/85	4.28 E	3.12	2.07	2.40	2.29	3.76	3.74	3.66	3.60
12/20/85	4.32	3.10	2.05	2.38	2.28	3.76	3.73	3.64	3.58
12/21/85	4.33	3.07	2.02	2.35	2.27	3.75	3.72	3.61	3.56
12/22/85	4.34	3.05	2.00	2.32	2.26	3.74	3.71	3.58	3.54
12/23/85	4.33	3.04	2.00	2.29	2.24	3.73	3.70	3.55	3.52
12/24/85	4.33	3.03	2.02	2.33	2.24	3.73	3.71	3.54	3.50
12/25/85	4.38	3.10	2.10	2.39	2.27	3.76	3.74	3.60	3.55
12/26/85	4.39	3.13	2.09	2.43	2.29	3.77	3.75	3.64	3.58
12/27/85	4.38	3.10	2.06	2.39	2.29	3.73	3.72	3.58	3.53
12/28/85	4.38	3.13	2.07	2.41	2.29	3.76	3.75	3.61	3.56
12/29/85	4.42	3.17	2.13	2.44	2.30	3.80	3.78	3.65	3.59
12/30/85	4.44	3.19	2.12	2.46	2.30	3.84	3.81	3.67	3.61
12/31/85	4.42	3.18	2.10	2.41	2.30	3.85 P	3.82 P	3.67 P	3.60 P
1/ 1/86	4.42	3.17	2.09	2.38	2.25	M	M	M	M
1/ 2/86	4.42	3.15	2.07	2.36	2.24	M	M	M	M
1/ 3/86	4.41	3.12	2.06	2.34	2.22	M	M	M	M
1/ 4/86	4.38	3.10	2.05	2.31	2.22	M	M	M	M
1/ 5/86	4.38	3.09	2.04	2.28	2.21	M	M	M	M
1/ 6/86	4.37	3.06	2.01	2.26	2.21	M	M	M	M
1/ 7/86	4.35	3.05	2.04	2.29	2.24	M	M	M	M
1/ 8/86	4.35	3.08	2.07	2.37	2.27	M	M	M	M
1/ 9/86	4.43	3.22	2.20	2.61	2.49	M	M	M	M
1/10/86	4.52	3.55	2.50	2.93	2.36	M	M	M	M
1/11/86	4.57	3.75	2.55	2.68	2.43	M	M	M	M
1/12/86	4.66	3.73	2.58	2.68	2.40	M	M	M	M
1/13/86	4.74	3.72	2.62	2.73	2.34	M	M	M	M
1/14/86	4.77	3.72	2.57	2.77	2.29	M	M	M	M
1/15/86	4.73	3.66	2.51	2.74	2.26	M	M	M	M
1/16/86	4.70	3.61	2.45	2.60	2.28	M	M	M	M
1/17/86	4.70	3.57	2.40	2.58	2.32	M	M	M	M
1/18/86	4.71	3.55	2.35	2.59	2.35	M	M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
1/19/86	4.72	3.53	2.34	2.59	2.39	M	M	M	M
1/20/86	4.72	3.50	2.29	2.58	2.41	M	M	M	M
1/21/86	4.67	3.44	2.25	2.52	2.38	M	M	M	M
1/22/86	4.65	3.39	2.22	2.50	2.38	M	M	M	M
1/23/86	4.63	3.36	2.20	2.49	2.39	M	M	M	M
1/24/86	4.62	3.34	2.18	2.48	2.35	M	M	M	M
1/25/86	4.59	3.30	2.15	2.46	2.33	M	M	M	M
1/26/86	4.56	3.28	2.14	2.43	2.32	M	M	M	M
1/27/86	4.54	3.25	2.12	2.40	2.30	M	M	M	M
1/28/86	4.51	3.18	2.11	2.34	2.26	M	M	M	M
1/29/86	4.44	3.03	2.06	2.25	2.23	M	M	M	M
1/30/86	4.43	3.08	2.06	2.29	2.21	M	M	M	M
1/31/86	4.41	3.08	2.02	2.29 P	2.20 P	M	M	M	M
2/ 1/86	4.39	3.05	1.99	M	M	M	M	M	M
2/ 2/86	4.38	3.03	1.98	M	M	M	M	M	M
2/ 3/86	4.36	3.00	1.96	M	M	M	M	M	M
2/ 4/86	4.33	2.97	1.94	M	M	M	M	M	M
2/ 5/86	4.30	2.93	1.91	M	M	M	M	M	M
2/ 6/86	4.25	2.90	1.91	M	M	M	M	M	M
2/ 7/86	4.24	2.88	1.90	M	M	M	M	M	M
2/ 8/86	4.26	2.85	1.88	M	M	M	M	M	M
2/ 9/86	4.27	2.84	1.87	M	M	M	M	M	M
2/10/86	4.26	2.74	1.84	M	M	M	M	M	M
2/11/86	4.24	2.64	1.84	M	M	M	M	M	M
2/12/86	4.26	2.63	1.91	M	M	M	M	M	M
2/13/86	4.25	2.62	1.89	M	M	M	M	M	M
2/14/86	4.21	2.59	1.85	2.11 P	2.10 P	M	M	M	M
2/15/86	4.19	2.58	1.85	2.12	2.11	M	M	M	M
2/16/86	4.15	2.53	1.83	2.13	2.12	M	M	M	M
2/17/86	4.12	2.52	1.81	2.14	2.13	M	M	M	M
2/18/86	4.15	2.58	1.90	2.16	2.14	M	M	M	M
2/19/86	4.26	2.75	2.00	2.29	2.16	M	M	M	M
2/20/86	4.32	2.83	2.03	2.33	2.14	M	M	M	M
2/21/86	4.33	2.85	2.03	2.29	2.12	M	M	M	M
2/22/86	4.33	2.86	2.02	2.26	2.13	M	M	M	M
2/23/86	4.32	2.85	2.02	2.22	2.14	M	M	M	M
2/24/86	4.30	2.84	2.02	2.17	2.12	M	M	M	M
2/25/86	4.27	2.81	2.00	2.06	1.97	M	M	M	M
2/26/86	4.22	2.77	1.97	2.00	1.90	M	M	M	M
2/27/86	4.16	2.73	1.96	1.99	1.89	M	M	M	M
2/28/86	4.10	2.70	1.93	1.97	1.87	M	M	M	M
3/ 1/86	4.09	2.70	1.95	1.94	1.85	M	M	M	M
3/ 2/86	4.03	2.65	1.92	1.90	1.83	M	M	M	M
3/ 3/86	3.96	2.56	1.88	1.86	1.81	M	M	M	M
3/ 4/86	3.96	2.59	1.87	1.87	1.81	M	M	M	M
3/ 5/86	4.05	2.63	1.89	1.89	1.79	M	M	M	M
3/ 6/86	4.09	2.65	1.88	1.87	1.77	M	M	M	M
3/ 7/86	4.10	2.65	1.88	1.85	1.75	M	M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
3/ 8/86	4.10	2.64	1.86	1.83	1.76		M	M	M
3/ 9/86	4.08	2.63	1.85	1.82	1.76		M	M	M
3/10/86	4.25	2.72	2.00	1.86	1.80		M	M	M
3/11/86	4.91	2.96	2.23	2.14	2.01		M	M	M
3/12/86	4.85	3.18	2.19	2.19	1.99		M	M	M
3/13/86	4.81	3.23 E	2.16	2.23	2.03		M	M	M
3/14/86	4.85	3.26 E	2.14	2.34	2.11		M	M	M
3/15/86	4.85	3.23	2.14	2.44	2.15		M	M	M
3/16/86	4.84	3.25 E	2.29	2.55	2.18		M	M	M
3/17/86	4.84	3.26 E	2.26	2.64	2.22		M	M	M
3/18/86	4.81	3.27	2.27	2.70	2.37		M	M	M
3/19/86	4.79	3.27	2.26	2.66	2.34		M	M	M
3/20/86	4.77	3.24	2.26	2.56	2.25		M	M	M
3/21/86	4.82	3.24	2.31	2.57	2.22		M	M	M
3/22/86	4.90	3.28	2.30	2.68	2.22		M	M	M
3/23/86	4.85	3.26	2.23	2.80	2.21		M	M	M
3/24/86	4.79	3.20	2.20	2.80	2.18		M	M	M
3/25/86	4.74	3.16	2.20	2.45	2.18		M	M	M
3/26/86	4.94	3.43	2.61	2.67	2.47		M	M	M
3/27/86	5.31	3.90	2.88	2.84	2.34		M	M	M
3/28/86	5.24	4.09	2.95	2.80	2.30		M	M	M
3/29/86	5.12	4.09	2.90	2.72	2.32		M	M	M
3/30/86	5.02	4.07	2.87	2.64	2.33		M	M	M
3/31/86	5.00	4.06	2.80	2.56	2.34		M	M	M
4/ 1/86	4.97	3.97	2.73	2.51	2.32		M	M	M
4/ 2/86	5.08	3.85	2.65	2.49	2.32		M	M	M
4/ 3/86	4.89	3.75	2.58	2.44	2.31		M	M	M
4/ 4/86	4.76	3.64	2.52	2.37	2.32		M	M	M
4/ 5/86	4.85	3.56	2.48	2.35	2.28		M	M	M
4/ 6/86	4.89	3.50	2.43	2.33	2.23		M	M	M
4/ 7/86	4.91	3.45	2.41	2.30	2.18		M	M	M
4/ 8/86	4.93	3.41	2.38	2.27	2.17		M	M	M
4/ 9/86	4.94	3.36	2.36	2.29	2.16		M	M	M
4/10/86	4.92	3.29	2.31	2.25	2.13		M	M	M
4/11/86	4.90	3.24	2.27	2.25	2.11		M	M	M
4/12/86	4.86	3.17	2.24	2.39	2.14		M	M	M
4/13/86	4.91	3.19	2.37	2.56	2.18		M	M	M
4/14/86	4.95	3.24	2.42	2.69	2.21		M	M	M
4/15/86	4.95	3.24	2.37	2.60	2.26		M	M	M
4/16/86	4.95	3.22	2.32	2.52	2.25		M	M	M
4/17/86	4.93	3.16	2.28	2.47	2.21		M	M	M
4/18/86	4.90	3.10	2.23	2.38	2.17		M	M	M
4/19/86	4.86	3.06	2.19	2.33	2.15		M	M	M
4/20/86	4.82	3.03	2.17	2.28	2.13		M	M	M
4/21/86	4.80	2.98	2.15	2.23	2.10		M	M	M
4/22/86	4.78	2.94	2.13	2.19	2.05		M	M	M
4/23/86	4.74	2.87	2.09	2.12	2.00		M	M	M
4/24/86	4.71	2.82	2.07	2.01	1.94		M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
4/25/86	4.59	2.77	2.02	2.00	1.90	M	M	M	M
4/26/86	4.33	2.74	1.99	1.97	1.87	M	M	M	M
4/27/86	4.21	2.72	1.96	1.93	1.84	M	M	M	M
4/28/86	4.14	2.68	1.93	1.90	1.81	M	M	M	M
4/29/86	4.07	2.65	1.90	1.88	1.79	M	M	M	M
4/30/86	3.98	2.64	1.87	1.85	1.76	M	M	M	M
5/ 1/86	3.93	2.62	1.86	1.83	1.71	M	M	M	M
5/ 2/86	3.87	2.61	1.86	1.81	1.70	M	M	M	M
5/ 3/86	3.84	2.61	1.86	1.82	1.69	M	M	M	M
5/ 4/86	3.81	2.61	1.88	1.83	1.68	M	M	M	M
5/ 5/86	3.80	2.63	1.93	1.82	1.67	M	M	M	M
5/ 6/86	3.78	2.64	1.93	1.78	1.65	M	M	M	M
5/ 7/86	3.77	2.65	1.94	1.79	1.62	M	M	M	M
5/ 8/86	3.74	2.65	1.96	1.84	1.64	M	M	M	M
5/ 9/86	3.75	2.72	2.01	2.08	1.74	M	M	M	M
5/10/86	3.73	2.73	2.00	2.02	1.69	M	M	M	M
5/11/86	3.71	2.74	1.99	2.01	1.68	M	M	M	M
5/12/86	3.69	2.74	1.99	2.00	1.67	M	M	M	M
5/13/86	3.67	2.71	1.97	1.99	1.66	M	M	M	M
5/14/86	3.65	2.67	1.93	1.92	1.62	M	M	M	M
5/15/86	3.64	2.64	1.91	1.83	1.60	M	M	M	M
5/16/86	3.61	2.64	1.91	1.80	1.59	M	M	M	M
5/17/86	3.59	2.62	1.90	1.77	1.57	M	M	M	M
5/18/86	3.56	2.61	1.88	1.74	1.55	M	M	M	M
5/19/86	3.55	2.56	1.87	1.71	1.53	M	M	M	M
5/20/86	3.53	2.56	1.89	1.75	1.55	M	M	M	M
5/21/86	3.55	2.64	1.95	1.93	1.62	M	M	M	M
5/22/86	4.09	2.79	2.08	2.03	1.72	M	M	M	M
5/23/86	4.29	3.04	2.35	2.48	2.32	M	M	M	M
5/24/86	4.33	3.28	2.45	2.61	2.44	M	M	M	M
5/25/86	4.32	3.39	2.49	2.67	2.48	M	M	M	M
5/26/86	4.26	3.39	2.49	2.74	2.51	M	M	M	M
5/27/86	4.21	3.34	2.48	2.79	2.54	M	M	M	M
5/28/86	4.16	3.29	2.45	2.78	2.50	M	M	M	M
5/29/86	4.12	3.22	2.41	2.74	2.45	M	M	M	M
5/30/86	4.06	3.17	2.35	2.65	2.18	M	M	M	M
5/31/86	4.01	3.13	2.31	2.57	2.09	M	M	M	M
6/ 1/86	3.96	3.10	2.30	2.48	2.03	M	M	M	M
6/ 2/86	3.92	3.08	2.28	2.41	1.97	M	M	M	M
6/ 3/86	3.88	3.03	2.27	2.37	1.90	M	M	M	M
6/ 4/86	3.86	3.05	2.24	2.35	1.86	M	M	M	M
6/ 5/86	3.82	3.08	2.21	2.20	1.80	M	M	M	M
6/ 6/86	3.77	3.03	2.18	2.11	1.78	M	M	M	M
6/ 7/86	3.78	3.14	2.48	2.59	1.95	M	M	M	M
6/ 8/86	4.25	3.57	3.13	3.14	2.15	M	M	M	M
6/ 9/86	4.69	3.76	3.08	3.52	2.30	M	M	M	M
6/10/86	4.72	3.73	2.99	3.37	2.27	M	M	M	M
6/11/86	4.63	3.70	2.92	3.27	2.24	M	M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
6/12/86	4.55	3.64	2.86	3.15	2.22	M	M	M	M
6/13/86	4.53	3.60	2.77	2.99	2.21	M	M	M	M
6/14/86	4.50	3.62	2.75	2.99	2.22	M	M	M	M
6/15/86	4.55	3.70	2.83	3.01	2.23	M	M	M	M
6/16/86	4.69	3.97	3.06	3.08	2.26	M	M	M	M
6/17/86	4.72	3.96	3.19	3.32	2.32	M	M	M	M
6/18/86	4.73	3.91	3.16	3.32	2.33	M	M	M	M
6/19/86	4.74	3.88	3.08	3.14	2.42	M	M	M	M
6/20/86	4.83	3.95	3.22	3.14	2.53	M	M	M	M
6/21/86	5.35	3.95	3.35	3.38	2.56	M	M	M	M
6/22/86	5.34	4.23	3.61	3.66	2.58	M	M	M	M
6/23/86	5.30	4.49	3.54	3.74	2.60	M	M	M	M
6/24/86	5.41	4.68	3.71	3.26	2.58	M	M	M	M
6/25/86	5.26	4.62	3.63	2.89	2.50	M	M	M	M
6/26/86	5.07	4.52	3.48	3.29	2.44	M	M	M	M
6/27/86	4.91	4.46	3.40	3.55	2.58	M	M	M	M
6/28/86	4.80	4.39	3.52	3.43	2.60	M	M	M	M
6/29/86	4.71	4.42	3.63	3.26	2.60	M	M	M	M
6/30/86	4.66	4.38	3.47	3.10	2.60	M	M	M	M
7/ 1/86	4.61	4.27	3.32	2.97	2.60	M	M	M	M
7/ 2/86	4.63	4.18	3.23	2.89	2.60	M	M	M	M
7/ 3/86	4.91	4.12	3.19	2.88	2.59	M	M	M	M
7/ 4/86	4.95	4.11	3.14	2.86	2.55	M	M	M	M
7/ 5/86	4.95	4.06	3.07	2.84	2.50	M	M	M	M
7/ 6/86	4.90	4.02	3.03	2.82	2.46	M	M	M	M
7/ 7/86	4.81	3.98	3.00	2.82	2.44	M	M	M	M
7/ 8/86	4.73	3.93	2.96	2.87	2.49	M	M	M	M
7/ 9/86	4.69	3.91	2.93	2.89	2.50	M	M	M	M
7/10/86	4.72	3.96 E	2.91	3.15	2.48	M	M	M	M
7/11/86	4.69	3.95	2.90	3.08	2.41	M	M	M	M
7/12/86	4.63	3.90	2.87	2.97	2.40	M	M	M	M
7/13/86	4.57	3.85	2.85	2.86	2.39	M	M	M	M
7/14/86	4.50	3.76	2.82	2.76	2.38	M	M	M	M
7/15/86	4.44	3.66	2.78	2.73	2.36	M	M	M	M
7/16/86	4.38	3.63	2.74	2.66	2.32	M	M	M	M
7/17/86	4.40	3.58	2.71	2.62	2.28	M	M	M	M
7/18/86	4.54	3.63	2.68	2.72	2.46	M	M	M	M
7/19/86	4.61	3.75	2.66	2.69	2.37	M	M	M	M
7/20/86	4.69	3.74	2.65	2.64	2.26	M	M	M	M
7/21/86	4.71	3.77	2.66	2.61	2.16	M	M	M	M
7/22/86	4.69	3.75	2.65	2.60	2.17	M	M	M	M
7/23/86	4.69	3.76	2.65	2.58	2.23	M	M	M	M
7/24/86	4.73	3.80	2.74	2.71	2.35	M	M	M	M
7/25/86	4.63	3.87	2.88	2.75	2.50	M	M	M	M
7/26/86	4.72	3.93	2.92	2.74	2.47	M	M	M	M
7/27/86	4.81	3.91	2.84	2.72	2.42	M	M	M	M
7/28/86	4.81	3.89	2.82	2.70	2.41	M	M	M	M
7/29/86	4.62	3.83	2.79	2.69	2.53	M	M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/30/86	4.50	3.72	2.73	2.64	2.50		M	M	M
7/31/86	4.41	3.63	2.65	2.59	2.48		M	M	M
8/ 1/86	4.34	3.55	2.60	2.55	2.48		M	M	M
8/ 2/86	4.29	3.48	2.56	2.52	2.47		M	M	M
8/ 3/86	4.24	3.41	2.52	2.50	2.46		M	M	M
8/ 4/86	4.22	3.43	2.53	2.55	2.48		M	M	M
8/ 5/86	4.20	3.63	2.60	2.76	2.57		M	M	M
8/ 6/86	4.18 E	3.62	2.64	2.80	2.58		M	M	M
8/ 7/86	4.14	3.57	2.64	2.76	2.57		M	M	M
8/ 8/86	4.11	3.50	2.62	2.64	2.55		M	M	M
8/ 9/86	4.30	3.52	2.60	2.58	2.54		M	M	M
8/10/86	4.45	3.52	2.57	2.53	2.53		M	M	M
8/11/86	4.53	3.54	2.61	2.50	2.51		M	M	M
8/12/86	4.39	3.50	2.62	2.57	2.50		M	M	M
8/13/86	4.32	3.44	2.61	2.55	2.50		M	M	M
8/14/86	4.28	3.39	2.61	2.55	2.50		M	M	M
8/15/86	4.26	3.37	2.66	2.57	2.51		M	M	M
8/16/86	4.58	3.42	2.75	2.70	2.58		M	M	M
8/17/86	5.44	3.69	3.01	2.84	2.65		M	M	M
8/18/86	5.34	3.98	3.35	2.97	2.72		M	M	M
8/19/86	5.38 E	4.15 E	3.42	3.01	2.71		M	M	M
8/20/86	5.27	4.18 E	3.31	2.96	2.57		M	M	M
8/21/86	5.03	4.15	3.21	2.90	2.50		M	M	M
8/22/86	5.02	4.07	3.17	2.89	2.47		M	M	M
8/23/86	4.94	3.97	3.08	2.80	2.44		M	M	M
8/24/86	4.86	3.88	3.00	2.69	2.41		M	M	M
8/25/86	4.80	3.82	2.92	2.61	2.38		M	M	M
8/26/86	4.72	3.77	2.86	2.58	2.37		M	M	M
8/27/86	4.64	3.68	2.81	2.56	2.34		M	M	M
8/28/86	4.60	3.61	2.77	2.49	2.31		M	M	M
8/29/86	4.57	3.54	2.73	2.45	2.28		M	M	M
8/30/86	4.50	3.46	2.68	2.44	2.29		M	M	M
8/31/86	4.44	3.44	2.74	2.43	2.29		M	M	M
9/ 1/86	4.39	3.41	2.69	2.41	2.30		M	M	M
9/ 2/86	4.33	3.39	2.64	2.39	2.27		M	M	M
9/ 3/86	4.28	3.48	2.60	2.42	2.25		M	M	M
9/ 4/86	4.22	3.58	2.63	2.81	2.49		M	M	M
9/ 5/86	4.19	3.70	2.80	3.51	2.58		M	M	M
9/ 6/86	4.15	3.80	2.88	3.43	2.64		M	M	M
9/ 7/86	4.16	4.16	3.18	3.28	2.68		M	M	M
9/ 8/86	4.20	4.50	3.41	3.14	2.69		M	M	M
9/ 9/86	4.24	4.67	3.53	3.01	2.61		M	M	M
9/10/86	4.26	4.45	3.43	2.87	2.55		M	M	M
9/11/86	4.25	4.25	3.30	2.82	2.53		M	M	M
9/12/86	4.24	4.09	3.17	2.71	2.55		M	M	M
9/13/86	4.21	3.94	3.05	2.68	2.57		M	M	M
9/14/86	4.18	3.81	2.96	2.66	2.59		M	M	M
9/15/86	4.14	3.70	2.86	2.64	2.58		M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
9/16/86	4.12 E	3.60	2.82	2.62	2.49	M	M	M	M
9/17/86	4.18 E	3.56	2.79	2.63	2.50	M	M	M	M
9/18/86	4.27 E	3.54	2.79	2.70	2.50	M	M	M	M
9/19/86	4.36 E	3.51	2.75	2.68	2.41	M	M	M	M
9/20/86	4.45 E	3.51	2.71	2.71	2.41	M	M	M	M
9/21/86	4.54 E	3.84	3.29	2.74	2.42	M	M	M	M
9/22/86	4.63 E	4.01	3.26	2.79	2.42	M	M	M	M
9/23/86	4.72 E	3.99	3.27	2.91	2.45	M	M	M	M
9/24/86	4.79 E	4.01	3.21	2.95	2.49	M	M	M	M
9/25/86	4.81	3.92	3.11	2.89	2.47	M	M	M	M
9/26/86	4.81	3.85	3.01	2.79	2.32	M	M	M	M
9/27/86	4.81	3.78	2.92	2.73	2.33	M	M	M	M
9/28/86	4.82	3.71	2.86	2.67	2.34	M	M	M	M
9/29/86	4.84	3.65	2.80	2.62	2.35	M	M	M	M
9/30/86	4.90	3.60	2.77	2.67	2.43	M	M	M	M
10/ 1/86	4.93	3.56	2.74	2.70	2.46	M	M	M	M
10/ 2/86	4.89	3.52	2.71	2.59	2.27	M	M	M	M
10/ 3/86	4.87	3.49	2.67	2.51	2.21	M	M	M	M
10/ 4/86	4.83	3.47	2.66	2.49	2.22	M	M	M	M
10/ 5/86	4.82	3.44	2.64	2.48	2.23	M	M	M	M
10/ 6/86	4.83	3.40	2.62	2.48	2.25	M	M	M	M
10/ 7/86	4.86	3.36	2.59	2.50	2.31	M	M	M	M
10/ 8/86	4.85	3.30	2.57	2.48	2.32	M	M	M	M
10/ 9/86	4.86	3.26	2.54	2.46	2.31	M	M	M	M
10/10/86	4.86	3.21	2.53	2.44	2.30	M	M	M	M
10/11/86	4.88	3.18	2.50	2.42	2.30	M	M	M	M
10/12/86	4.88	3.15	2.47	2.39	2.29	M	M	M	M
10/13/86	4.88	3.10	2.45	2.37	2.28	M	M	M	M
10/14/86	4.86	3.06	2.45	2.37	2.27	M	M	M	M
10/15/86	4.85	3.02	2.46	2.42	2.34	M	M	M	M
10/16/86	4.89	3.04	2.47	2.60	2.45	M	M	M	M
10/17/86	4.91	3.04	2.39	2.60	2.55	M	M	M	M
10/18/86	4.90	3.00	2.33	2.58	2.44	M	M	M	M
10/19/86	4.90	2.99	2.44	2.57	2.31	M	M	M	M
10/20/86	4.88	2.99	2.43	2.53	2.18	M	M	M	M
10/21/86	4.87	2.97	2.38	2.40	2.14	M	M	M	M
10/22/86	4.85	2.94	2.32	2.33	2.11	M	M	M	M
10/23/86	4.82	2.90	2.26	2.30	2.14	M	M	M	M
10/24/86	4.79	2.85	2.22	2.28	2.17	M	M	M	M
10/25/86	4.77	2.81	2.17	2.26	2.14	M	M	M	M
10/26/86	4.75	2.76	2.11	2.24	2.09	M	M	M	M
10/27/86	4.73	2.72	2.06	2.22	2.07	M	M	M	M
10/28/86	4.73	2.67	2.01	2.20	2.14	M	M	M	M
10/29/86	4.75	2.74	2.00	2.23	2.22	M	M	M	M
10/30/86	4.72	2.91	2.00	2.39	2.51	M	M	M	M
10/31/86	4.67	2.96	2.00	2.37	2.50	M	M	M	M
11/ 1/86	4.64	2.99	2.00	2.30	2.35	M	M	M	M
11/ 2/86	4.62	3.02	2.00	2.21	2.19	M	M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
11/ 3/86	4.63	3.04	2.00	2.14	2.05	M	M	M	M
11/ 4/86	4.66	3.01	2.05	2.15	2.07	M	M	M	M
11/ 5/86	4.67	3.03	2.13	2.17	2.09	M	M	M	M
11/ 6/86	4.67	3.05	2.19	2.17	2.13	M	M	M	M
11/ 7/86	4.66	3.06	2.17	2.06	2.12	M	M	M	M
11/ 8/86	4.65	3.01	2.13	2.10	2.12	M	M	M	M
11/ 9/86	4.65	3.00	2.11	2.16	2.12	M	M	M	M
11/10/86	4.65	2.99	2.09	2.21	2.12	M	M	M	M
11/11/86	4.63	2.98	2.06	2.20	2.10	M	M	M	M
11/12/86	4.61	3.05	2.05	2.17	2.08	M	M	M	M
11/13/86	4.56	3.17	2.07	2.18	2.07	M	M	M	M
11/14/86	4.58	3.23	2.07	2.21	2.07	M	M	M	M
11/15/86	4.67	3.29	2.11	2.24	2.07	M	M	M	M
11/16/86	4.72	3.35	2.11	2.27	2.06	M	M	M	M
11/17/86	4.73	3.38	2.11	2.29	2.06	M	M	M	M
11/18/86	4.74	3.38	2.10	2.27	2.10	M	M	M	M
11/19/86	4.75	3.39	2.09	2.23	2.09	M	M	M	M
11/20/86	4.74	3.37	2.07	2.20	2.10	M	M	M	M
11/21/86	4.74	3.37	2.06	2.21	2.12	M	M	M	M
11/22/86	4.78	3.38	2.17	2.32	2.24	M	M	M	M
11/23/86	4.94	3.38	2.37	2.44	2.37	M	M	M	M
11/24/86	4.92	3.43	2.34	2.53	2.48	M	M	M	M
11/25/86	4.90	3.53	2.29	2.50	2.48	M	M	M	M
11/26/86	4.87	3.49	2.24	2.50	2.46	M	M	M	M
11/27/86	4.87	3.53	2.21	2.54	2.46	M	M	M	M
11/28/86	4.85	3.54	2.20	2.57	2.47	M	M	M	M
11/29/86	4.81 E	3.67	2.49	2.61	2.48	M	M	M	M
11/30/86	4.59 E	3.66	2.52	2.65	2.49	M	M	M	M
12/ 1/86	4.51 E	3.63	2.53	2.68	2.47	M	M	M	M
12/ 2/86	4.49 E	3.67	2.58	2.69	2.31	M	M	M	M
12/ 3/86	4.45 E	3.70	2.54	2.64	2.29	M	M	M	M
12/ 4/86	4.41 E	3.74	2.47	2.58	2.34	M	M	M	M
12/ 5/86	4.39	3.73	2.43	2.54	2.25	M	M	M	M
12/ 6/86	4.37	3.71	2.41	2.49	2.23	M	M	M	M
12/ 7/86	4.38	3.67	2.41	2.43	2.21	M	M	M	M
12/ 8/86	4.36	3.64	2.37	2.38	2.20	M	M	M	M
12/ 9/86	4.33	3.60	2.33	2.38	2.24	M	M	M	M
12/10/86	4.30	3.56	2.29	2.38	2.25	M	M	M	M
12/11/86	4.27	3.53	2.25	2.40	2.27	M	M	M	M
12/12/86	4.25	3.48	2.22	2.40	2.26	M	M	M	M
12/13/86	4.25	3.44	2.19	2.38	2.24	M	M	M	M
12/14/86	4.22	3.39	2.17	2.37	2.22	M	M	M	M
12/15/86	4.20	3.37	2.16	2.35	2.20	M	M	M	M
12/16/86	4.20	3.37	2.14	2.31	2.19	M	M	M	M
12/17/86	4.16	3.34	2.12	2.30	2.18	M	M	M	M
12/18/86	4.13	3.30	2.10	2.27	2.16	M	M	M	M
12/19/86	4.09	3.27	2.09	2.22	2.13	M	M	M	M
12/20/86	4.07	3.25	2.07	2.20	2.11	M	M	M	M

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
12/21/86	4.06	3.22	2.06	2.19	2.10	M	M	M	M
12/22/86	4.02	3.18	2.04	2.17	2.08	M	M	M	M
12/23/86	3.97	3.16	2.04	2.16	2.09	M	M	M	M
12/24/86	3.97	3.23	2.16	2.22	2.12	M	M	M	M
12/25/86	3.98	3.38	2.29	2.32	2.14	M	M	M	M
12/26/86	3.98	3.39	2.30	2.42	2.16	M	M	M	M
12/27/86	4.00	3.23	2.29	2.52	2.18	M	M	M	M
12/28/86	4.05	3.27	2.33	2.62	2.20	M	M	M	M
12/29/86	4.08	3.31	2.32	2.68	2.21	M	M	M	M
12/30/86	4.09	3.29	2.29	2.59	2.17	M	M	M	M
12/31/86	4.07	3.27	2.31	2.54	2.18	M	M	M	M
1/ 1/87	4.59	3.47	2.76	2.74	2.31	M	M	M	M
1/ 2/87	4.71	3.58	2.70	2.92	2.43	4.00 P	3.96 P	3.79 P	3.76 P
1/ 3/87	4.50	3.64	2.61	2.93	2.46	4.06	4.02	3.83	3.80
1/ 4/87	4.37	3.62	2.61	2.89	2.47	4.13	4.09	3.87	3.84
1/ 5/87	4.33	3.70	2.70	2.83	2.47	4.19	4.15	3.90	3.87
1/ 6/87	4.27	3.68	2.63	2.70	2.43	4.19	4.15	3.87	3.83
1/ 7/87	4.25	3.64	2.57	2.62	2.36	4.15	4.10	3.84	3.80
1/ 8/87	4.40	3.61	2.51	2.61	2.45	4.10	4.07	3.82	3.78
1/ 9/87	4.46	3.57	2.46	2.62	2.45	4.06	4.00	3.81	3.77
1/10/87	4.49	3.54	2.42	2.60	2.43	4.03	3.98	3.77	3.73
1/11/87	4.52	3.49	2.37	2.56	2.40	4.00	3.96	3.72	3.68
1/12/87	4.52	3.42	2.32	2.52	2.37	3.95	3.93	3.66	3.62
1/13/87	4.51	3.38	2.31	2.50	2.35	3.89	3.86	3.60	3.56
1/14/87	4.48	3.35	2.30	2.46	2.36	3.86	3.82	3.58	3.55
1/15/87	4.46	3.34	2.30	2.42	2.36	3.86	3.82	3.58	3.54
1/16/87	4.43	3.33	2.29	2.42	2.35	3.85	3.81	3.59	3.54
1/17/87	4.43	3.30	2.27	2.41	2.34	3.83	3.80	3.57	3.53
1/18/87	4.42	3.30	2.25	2.40	2.33	3.81	3.78	3.56	3.51
1/19/87	4.42	3.27	2.23	2.39	2.32	3.80	3.77	3.54	3.50
1/20/87	4.41	3.23	2.22	2.38	2.30	3.78	3.75	3.52	3.48
1/21/87	4.41	3.21	2.20	2.35	2.29	3.77	3.73	3.51	3.46
1/22/87	4.42	3.20	2.20	2.32	2.29	3.75	3.72	3.49	3.47
1/23/87	4.46	3.21	2.20	2.34	2.23	3.76	3.70	3.49	3.43
1/24/87	4.47	3.16	2.17	2.34	2.24	3.90	3.66	3.51	3.44
1/25/87	4.51 E	3.19	2.16	2.34	2.25	4.05	3.62	3.53	3.46
1/26/87	4.53 E	3.20	2.16	2.31	2.25	4.16	3.57	3.54	3.47
1/27/87	4.52 E	3.19	2.14	2.22	2.16	4.12	3.48	3.51	3.42
1/28/87	4.52 E	3.13	2.11	2.18	2.11	4.14	3.43	3.43	3.37
1/29/87	4.51 E	3.14	2.11	2.19	2.11	4.15	3.46	3.47	3.40
1/30/87	4.50 E	3.14	2.11	2.19	2.11	4.16	3.48	3.48	3.40
1/31/87	4.49 E	3.15	2.11	2.19	2.11	4.16	3.49	3.48	3.40
2/ 1/87	4.49 E	3.14	2.10	2.18	2.10	4.15	3.49	3.47	3.39
2/ 2/87	4.48 E	3.13	2.10	2.16	2.09	4.09	3.53	3.46	3.39
2/ 3/87	4.47 E	3.12	2.10	2.16	2.08	3.81	3.70	3.44	3.37
2/ 4/87	4.47 E	3.10	2.08	2.11	2.02	3.80	3.76	3.41	3.34
2/ 5/87	4.46 E	3.05	2.08	2.07	2.03	3.79	3.75	3.36	3.29
2/ 6/87	4.45 E	3.02	2.08	2.10	2.02	3.72	3.68	3.32	3.23

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
2/ 7/87	4.44 E	3.00	2.11	2.13	2.03	3.69	3.66	3.36	3.18
2/ 8/87	4.44 E	3.00	2.11	2.14	2.04	3.68	3.64	3.41	3.13
2/ 9/87	4.43 E	2.93	2.08	2.14	2.04	3.68	3.64	3.51	3.04
2/10/87	4.42 E	2.80	2.05	2.02	1.97	3.75	3.71	3.87	2.82
2/11/87	4.40 E	2.79	2.03	1.99	1.97	3.78	3.74	3.94	2.83
2/12/87	4.39	2.85	2.04	2.03	1.98	3.80	3.76	3.86	3.00
2/13/87	4.37	2.96	2.03	2.01	1.96	3.79	3.76	3.68	3.37
2/14/87	4.37	3.15	2.04	2.03	1.97	3.79	3.77	3.67	3.45
2/15/87	4.36	3.17	2.07	2.06	1.98	3.80	3.77	3.68	3.49
2/16/87	4.36	3.20	2.12	2.09	1.99	3.80	3.78	3.69	3.54
2/17/87	4.38	3.24	2.14	2.11	1.99	3.80	3.78	3.70	3.58
2/18/87	4.38	3.26	2.16	2.12	1.99	3.81	3.78	3.72	3.59
2/19/87	4.37	3.28	2.16	2.09	1.98	3.84	3.80	3.74	3.61
2/20/87	4.33	3.25	2.14	2.05	1.96	3.84	3.79	3.72	3.60
2/21/87	4.34	3.25	2.14	2.04	1.93	3.82	3.78	3.71	3.59
2/22/87	4.35	3.24	2.13	2.02	1.89	3.81	3.77	3.70	3.58
2/23/87	4.34	3.21	2.11	2.00	1.86	3.79	3.75	3.67	3.55
2/24/87	4.30	3.18	2.09	1.98	1.88	3.76	3.73	3.64	3.51
2/25/87	4.31	3.19	2.11	2.00	1.94	3.76	3.73	3.64	3.52
2/26/87	4.32	3.19	2.12	2.07	1.99	3.77	3.72	3.64	3.53
2/27/87	4.32	3.20	2.10	2.08	1.98	3.77	3.73	3.65	3.55
2/28/87	4.30	3.18	2.08	2.06	1.99	3.77	3.73	3.66	3.55
3/ 1/87	4.30	3.17	2.07	2.04	2.00	3.76	3.72	3.66	3.54
3/ 2/87	4.36	3.21	2.17	2.05	2.02	3.78	3.74	3.68	3.55
3/ 3/87	4.43	3.36	2.30	2.34	2.18	3.89	3.83	3.83	3.70
3/ 4/87	4.49	3.46	2.34	2.42	2.16	3.97	3.91	3.96	3.80
3/ 5/87	4.50	3.46	2.33	2.40	2.11	3.95	3.91	3.88	3.77
3/ 6/87	4.41	3.38	2.32	2.36	2.10	3.89	3.85	3.77	3.66
3/ 7/87	4.52	3.63	2.68	2.51	2.20	4.02	3.98	3.84	3.74
3/ 8/87	4.51	3.85	2.74	2.70	2.31	4.17	4.12	3.93	3.84
3/ 9/87	4.41	3.79	2.65	2.84	2.39	4.27	4.21	4.00	3.92
3/10/87	4.33	3.72	2.58	2.74	2.29	4.16	4.12	4.01	3.92
3/11/87	4.27	3.72	2.51	2.61	2.33	4.18	4.13	4.05	3.96
3/12/87	4.23	3.67	2.48	2.59	2.32	4.16	4.12	4.03	3.94
3/13/87	4.26	3.64	2.44	2.56	2.29	4.13	4.10	4.01	3.90
3/14/87	4.44	3.59	2.41	2.50	2.27	4.09	4.06	3.97	3.86
3/15/87	4.48	3.56	2.39	2.44	2.24	4.05	4.02	3.91	3.82
3/16/87	4.48	3.51	2.35	2.37	2.21	4.00	3.98	3.85	3.78
3/17/87	4.46	3.44	2.31	2.30	2.11	3.95	3.93	3.78	3.72
3/18/87	4.43	3.39	2.28	2.24	2.14	3.91	3.88	3.75	3.67
3/19/87	4.39	3.38	2.26	2.25	2.17	3.92	3.88	3.77	3.66
3/20/87	4.38	3.37	2.24	2.21	2.13	3.90	3.88	3.78	3.67
3/21/87	4.37	3.35	2.22	2.23	2.14	3.90	3.88	3.79	3.69
3/22/87	4.35	3.31	2.20	2.26	2.16	3.89	3.87	3.80	3.70
3/23/87	4.35	3.34	2.23	2.29	2.21	3.89	3.86	3.80	3.71
3/24/87	4.38	3.38	2.33	2.40	2.41	3.90	3.87	3.79	3.71
3/25/87	4.50	3.42	2.43	2.67	2.56	3.89	3.86	3.78	3.70
3/26/87	4.57	3.40	2.38	2.68	2.46	3.87	3.84	3.73	3.64

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
3/27/87	4.61	3.36	2.34	2.61	2.37	3.83	3.80	3.67	3.59
3/28/87	4.63	3.32	2.31	2.54	2.33	3.79	3.76	3.61	3.53
3/29/87	4.64	3.28	2.29	2.47	2.29	3.75	3.72	3.55	3.47
3/30/87	4.62	3.21	2.26	2.42	2.25	3.71	3.68	3.50	3.41
3/31/87	4.69	3.22	2.27	2.44	2.23	3.71	3.68	3.53	3.44
4/ 1/87	4.71	3.27	2.25	2.41	2.16	3.79	3.75	3.65	3.55
4/ 2/87	4.66	3.26	2.21	2.37	2.17	3.82	3.78	3.66	3.58
4/ 3/87	4.63	3.24	2.19	2.36	2.17	3.82	3.78	3.64	3.56
4/ 4/87	4.63	3.21	2.17	2.32	2.14	3.80	3.76	3.60	3.53
4/ 5/87	4.59	3.18	2.14	2.27	2.11	3.79	3.74	3.56	3.48
4/ 6/87	4.55	3.14	2.12	2.21	2.07	3.77	3.73	3.54	3.45
4/ 7/87	4.51	3.13	2.12	2.13	2.03	3.77	3.74	3.57	3.47
4/ 8/87	4.49	3.14	2.12	2.11	2.03	3.78	3.75	3.59	3.49
4/ 9/87	4.49	3.12	2.11	2.12	2.00	3.75	3.72	3.54	3.44
4/10/87	4.48	3.09	2.09	2.10	1.98	3.73	3.69	3.52	3.43
4/11/87	4.46	3.06	2.07	2.08	1.96	3.70	3.67	3.49	3.41
4/12/87	4.43	3.04	2.06	2.05	1.94	3.67	3.66	3.47	3.40
4/13/87	4.41	3.02	2.05	2.02	1.92	3.65	3.64	3.45	3.38
4/14/87	4.38	3.01	2.04	1.98	1.89	3.68	3.64	3.48	3.38
4/15/87	4.38	3.02	2.04	1.98	1.88	3.73	3.63	3.50	3.40
4/16/87	4.40	3.03	2.05	1.98	1.87	3.92	3.47	3.52	3.42
4/17/87	4.39	3.02	2.04	1.98	1.87	3.95	3.43	3.53	3.44
4/18/87	4.40	3.01	2.02	1.94	1.83	3.93	3.43	3.51	3.42
4/19/87	4.39	2.99	2.00	1.91	1.78	3.92	3.43	3.50	3.39
4/20/87	4.37	2.96	1.98	1.86	1.72	3.94	3.42	3.49	3.38
4/21/87	4.38	2.95	1.96	1.79	1.68	4.02	3.47	3.48	3.39
4/22/87	4.36	2.93	1.94	1.79	1.66	3.83	3.69	3.45	3.37
4/23/87	4.35	2.90	1.92	1.76	1.64	3.82	3.73	3.44	3.35
4/24/87	4.34	2.89	1.91	1.74	1.62	3.80	3.70	3.44	3.33
4/25/87	4.33	2.87	1.89	1.70	1.58	3.80	3.70	3.42	3.31
4/26/87	4.31	2.83	1.87	1.66	1.54	3.79	3.70	3.39	3.29
4/27/87	4.31	2.81	1.85	1.61	1.49	3.78	3.70	3.36	3.28
4/28/87	4.33	2.79	1.83	1.59	1.43	3.76	3.69	3.35	3.27
4/29/87	4.34	2.77	1.83	1.57	1.44	3.71	3.67	3.32	3.23
4/30/87	4.24	2.77	1.81	1.56	1.48	3.74	3.65	3.33	3.24
5/ 1/87	3.98	2.82	1.78	1.69	1.74	3.98	3.85	3.54	3.42
5/ 2/87	3.86	2.85	1.78	1.81	1.86	4.04	3.92	3.58	3.47
5/ 3/87	3.76	2.91	1.79	1.91	1.96	4.07	3.96	3.60	3.51
5/ 4/87	3.70	2.94	1.79	1.99	2.05	4.10	4.00	3.62	3.54
5/ 5/87	3.64	2.97	1.80	2.01	2.05	4.06	3.97	3.61	3.51
5/ 6/87	3.59	2.95	1.81	2.07	1.95	3.95	3.89	3.55	3.47
5/ 7/87	3.56	3.03	1.91	2.13	2.11	4.06	3.97	3.62	3.53
5/ 8/87	3.61	3.18	2.19	2.39	2.28	4.01	3.94	3.66	3.58
5/ 9/87	3.76	3.21	2.28	2.61	2.32	3.95	3.89	3.68	3.62
5/10/87	3.85	3.30	2.33	2.83	2.34	3.89	3.83	3.70	3.66
5/11/87	4.45	3.40	2.45	3.02	2.36	3.83	3.79	3.72	3.69
5/12/87	4.60	3.46	2.64	3.06	2.36	3.84	3.80	3.74	3.70
5/13/87	4.65	3.76	2.75	3.50	2.38	3.87	3.84	3.81	3.78

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us WMD	S-167us WMD	S-167ds WMD	S-178us WMD	S-178ds WMD	S-194us WMD	S-194ds WMD	S-196us WMD	S-196ds WMD
5/14/87	4.71	4.05	2.99	2.53	2.31	3.98	3.95	4.08	4.07
5/15/87	4.65	3.96	3.01	2.21	2.15	4.01	3.98	4.03	4.02
5/16/87	4.61	3.93	2.98	2.29	2.21	4.05	4.02	4.01	4.01
5/17/87	4.58	3.87	2.92	2.41	2.34	4.08	4.05	4.00	4.00
5/18/87	4.52	3.80	2.86	2.65	2.42	4.10	4.07	3.98	3.97
5/19/87	4.48	3.75	2.90	3.11	2.43	4.13	4.10	3.96	3.93
5/20/87	4.43	3.71	2.91	3.07	2.44	4.11	4.08	3.91	3.90
5/21/87	4.38	3.64	2.83	2.97	2.41	4.09	4.04	3.85	3.82
5/22/87	4.33	3.57	2.75	2.84	2.37	4.09	3.98	3.77	3.75
5/23/87	4.27	3.49	2.69	2.75	2.34	4.03	3.93	3.69	3.68
5/24/87	4.22	3.42	2.63	2.66	2.31	3.97	3.88	3.62	3.61
5/25/87	4.17	3.35	2.58	2.57	2.27	3.91	3.83	3.55	3.54
5/26/87	4.12	3.26	2.54	2.48	2.23	3.84	3.77	3.47	3.48
5/27/87	4.07	3.20	2.49	2.41	2.19	3.75	3.71	3.40	3.45
5/28/87	4.02	3.13	2.47	2.37	2.17	3.69	3.66	3.34	3.32
5/29/87	3.98	3.07	2.46	2.32	2.15	3.66	3.60	3.30	3.25
5/30/87	3.96	3.04	2.44	2.30	2.15	3.62	3.56	3.27	3.22
5/31/87	3.89	2.98	2.43	2.27	2.14	3.58	3.53	3.23	3.19
6/ 1/87	3.85	2.94	2.40	2.25	2.13	3.54	3.49	3.19	3.15
6/ 2/87	3.84	2.90	2.37	2.26	2.13	3.50	3.47	3.17	3.10
6/ 3/87	3.83	2.84	2.33	2.20	2.08	3.53	3.50	3.30	3.06
6/ 4/87	3.83	2.76	2.29	2.17	2.04	3.56	3.53	3.59	2.90
6/ 5/87	3.82	2.72	2.24	2.13	2.00	3.55	3.52	3.73	2.87
6/ 6/87	3.79	2.68	2.19	2.09	1.97	3.53	3.51	3.76	2.85
6/ 7/87	3.83	2.65	2.15	2.04	1.93	3.52	3.49	3.78	2.83
6/ 8/87	3.85	2.61	2.12	2.00	1.89	3.51	3.48	3.81	2.79
6/ 9/87	3.84	2.62	2.20	1.97	1.84	3.55	3.51	3.80	2.85
6/10/87	3.85	2.88	2.27	1.92	1.80	3.56	3.54	3.62	3.37
6/11/87	3.85	3.14	2.25	1.94	1.81	3.56	3.54	3.59	3.48
6/12/87	3.85	3.15	2.23	1.96	1.84	3.55	3.52	3.55	3.43
6/13/87	3.83	3.15	2.19	1.94	1.83	3.55	3.52	3.55	3.43
6/14/87	3.82	3.16	2.16	1.92	1.82	3.55	3.52	3.54	3.42
6/15/87	3.83	3.18	2.11	1.90	1.81	3.55	3.52	3.54	3.43
6/16/87	3.85	3.20	2.08	1.89	1.81	3.57	3.51	3.56	3.48
6/17/87	3.85	3.20	2.04	1.87	1.78	3.65	3.52	3.58	3.48
6/18/87	3.83	3.18	2.00	1.81	1.75	3.61	3.57	3.55	3.45
6/19/87	3.80	3.16	1.98	1.82	1.72	3.64	3.60	3.50	3.41
6/20/87	3.78	3.15	1.95	1.80	1.71	3.63	3.60	3.49	3.40
6/21/87	3.76	3.15	1.92	1.77	1.70	3.62	3.59	3.48	3.39
6/22/87	3.74	3.13	1.89	1.75	1.68	3.60	3.57	3.46	3.38
6/23/87	3.78	3.20	1.89	1.74	1.70	3.69	3.65	3.57	3.48
6/24/87	3.87	3.45	1.91	1.90	1.95	4.08	3.99	3.96	3.89
6/25/87	3.79	3.46	2.00	2.33	2.10	4.03	3.96	3.88	3.76
6/26/87	3.74	3.39	2.31	3.30	2.19	3.88	3.83	3.73	3.66
6/27/87	3.76	3.59	2.43	3.22	2.24	4.13	4.07	3.97	3.88
6/28/87	4.29	3.92	2.56	3.00	2.28	4.43	4.35	4.25	4.13
6/29/87	4.39	4.11	2.64	2.85	2.34	4.66	4.57	4.47	4.32
6/30/87	4.41	4.07	2.64	2.95	2.36	4.62	4.54	4.40	4.29

Table D.13 Miscellaneous Average Daily Upstream and Downstream Water Levels (ft. NGVD),
from July 11, 1985 through July 11, 1987.

Date	S-148us	S-167us	S-167ds	S-178us	S-178ds	S-194us	S-194ds	S-196us	S-196ds
	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD	WMD
7/ 1/87	4.36	4.02 E	2.65	2.86	2.15	4.47	4.41	4.22	4.15
7/ 2/87	4.29	4.02	2.65	2.79	2.15	4.48	4.42	4.31	4.20
7/ 3/87	4.21	3.92	2.64	2.76	2.17	4.39	4.34	4.27	4.17
7/ 4/87	4.15	3.97 E	2.66	2.72	2.18	4.30	4.26	4.20	4.13
7/ 5/87	4.08	3.97	2.69	2.68	2.19	4.20	4.17	4.14	4.08
7/ 6/87	4.01	3.89	2.66	2.63	2.19	4.13	4.09	4.09	4.04
7/ 7/87	3.96	3.89	2.64	2.57	2.15	4.11	4.07	4.09	4.03
7/ 8/87	3.91	3.82	2.60	2.52	2.11	4.06	4.01	4.03	3.98
7/ 9/87	3.86	3.72	2.55	2.38	2.09	3.98	3.93	3.93	3.88
7/10/87	3.82	3.63	2.51	2.30	2.05	3.89	3.86	3.86	3.80
7/11/87	3.77	3.57	2.55	2.24	2.03	3.84	3.81	3.80	3.75

APPENDIX E

Comments On Behalf Of

THE FLORIDA LIME AND AVOCADO
ADMINISTRATIVE COMMITTEES

Prepared by

GHIOTO & ASSOCIATES

Water Resources & Civil Engineering

September, 1989

This response to the report is written with the intent of clarifying a few technical issues that were not fully covered in the District's report; and to place the document into perspective relative to the overall process that has been, and continues to be, evolving for this region. Our investigations regarding much of the content of the report are on-going, and we intend to base final judgements on the additional data that has been collected as well as data for the period reported in the document. Therefore, it is emphasized that, if comments are not presented here, it is not necessarily an indication of complete agreement with the District's technical findings.

SEEPAGE COMPUTATIONS AND THE WATER BUDGET

Section IV.C.3 deals with the computation of a water budget for the NESRS Area. Although the stated intent is to provide an assessment of the relative importance of each of the water budget components, the seepage computations should be placed in the proper perspective. These were computed by performing a flow balance for the L-31N canal and assuming that the net outflow was equal to the total seepage. Then, the computed value was divided by two on the assumption that half of the seepage would come from the west (NESRS) and half would come from the east.

Water level data collected in NESRS and at Krome Avenue (to the east) indicate that seepage to L-31N is predominantly from NESRS. This is demonstrated for the 1986-87 Water Year in Figures 1 and 2. Figure 1 provides average monthly stages at NESRS-3 (located in the northeast corner of Northeast Shark River Slough), L-31N (downstream of structure S-334, and at Krome Avenue (a well east of L-31N)). As indicated by the graphic and the data, stages are much higher to the west of L-31N within NESRS than to the east. This is an indication that seepage must be significantly higher from the west than from the east. Figure 2 provides a comparison of differences between stages in the slough and L-31N (From West) as compared to differences between Krome Avenue and L-31N (From East). In simplified terms, the rate of seepage is directly proportional to these head differences shown. Negative differences for the east side are an indication that there is a slight eastward seepage from the canal to the aquifer at certain times of the year.

This technical detail is very important because the computed seepage could be mistakenly used to evaluate potential performance of other proposed works or operational modifications. Based on the foregoing, it is our opinion that seepage from NESRS to L-31N accounts for approximately 80 to 90 percent of the total seepage as opposed to the 50 percent assumed.

IMPACTS OF PUMPING AT S-331 ON DOWNSTREAM AREAS

The report evaluates performance of the system by comparison of stages between water years 1983-84 (pre-test condition) and 1985-86 (test condition) using stage duration curves. For the reach of L-31 between S-331 (Pumping Station) and S-176, the evaluation is based on stages immediately upstream of S-176. The conclusion is then drawn that the stages in the canal were actually moderated under test conditions.

Our concern with the analysis is that it does not reflect conditions upstream along that reach of L-31 to the S-331 Pumping Station. The following is a presentation of local data along that reach to clarify impacts of the test on agriculture both east and west of the canal. This presentation is made with monthly average stages to demonstrate that the effects are in fact persistent and not the result of isolated rainfall events.

Figure 3 contains monthly total rainfall at the S-331 Pumping Station for the two time periods used. As indicated, rainfall for this location is not comparable between 1983-84 and 1985-86, as it is on an area-wide basis to the north. In fact there are very large differences during the wet season, the largest occurring in August with 14.22 inches in 1985 and only 5.59 inches in 1983.

Figure 4 shows monthly total pumping at S-331 for the two periods. It should be noted that pumping occurred during both wet seasons. Wet season flood control pumping was not originally intended for S-331 and its use in 1983-84 was not indicative of design intent. Therefore, the 1983-84 water year is not necessarily a good benchmark to evaluate conditions. A good benchmark would be a year when flood control pumping did not occur. However, to be consistent with the report, this analysis employs the same time periods. It is evident from Figure 4 that significantly more wet season pumping occurred in 1985-86 than in 1983-84.

Figure 5 compares monthly average stages immediately upstream of S-176 for the two periods. This is the location where the District's report makes its stage-duration curve comparisons. In evaluating the S-176 headwater stages in Figure 5, it can be concluded that stages at that particular location were somewhat moderated. However, one must also realize that the stage recorder is very close to the structure and, in our opinion, probably within the structure's drawdown zone when the structure is open.

Figure 6 provides monthly average stages immediately downstream of S-331. In comparing this graphic to Figure 5, it readily evident that stages at the northern end of this reach are significantly higher than stages immediately

upstream of S-176. This is due primarily to head losses down the canal created by the large discharges from the pumping station. These head losses (or gradients) are shown graphically in Figure 7. Inspection of daily records reveals that, when pumping is stopped at S-331, stages recover relatively quickly and the gradients become much flatter (smaller). It is important for the reader to understand that the data presented are monthly averages and therefore represent prolonged conditions. Review of daily data will show that for shorter periods of greater pumping, the gradients will be even larger.

From the foregoing it can be concluded that pumping at high rates at S-331 does, in fact, cause downstream water levels to rise higher than they would without pumping. When pumping is continued, a groundwater mound is created south of S-331 extending to the east, west and south, thereby raising groundwater levels in that region. This groundwater mound reduces available storage for local rainfall events and thus increases flood damage potential to agricultural lands in that region. Farmers in the area east of L-31 have reported to this writer that replantings have been necessary during the test to replace trees that have been destroyed by high water table conditions. The foregoing use of average monthly stages indicates that these problems are persistent. In addition, it must be remembered that it only takes a few days of root zone flooding to kill some of the major tree crops grown in that area.

OVERALL PERSPECTIVE

The test was conducted under a variety of constraints in an attempt to mitigate adverse impacts. As a result, surplus waters were discharged to the south through the L-31N and C-111 systems. Under the proposed GDM for Water deliveries to Everglades National Park, these large volumes of surplus waters are intended to be recirculated to NESRS. Likewise, it should be emphasized that restrictions on maximum stages along Tamiami Trail will be different under the proposed GDM from the restrictions imposed during the test. Delivery patterns to NESRS will likely be quite different, especially with regard to regulatory releases from the conservation areas. Data previously provided by the U.S. Army Corps of Engineers predicts maximum water levels in NESRS up to nine feet above mean sea level. As a result, we expect seepage potential to L-31N to be even greater than that which occurred during the test. We also expect that flood potential will be greater west of L-31N, thus requiring additional protective works.

Therefore, conclusions presented in the report relating to flooding west of L-31N can not be extrapolated directly to the ultimate plan for the area.

Mean Monthly Stage Comparisons For Relative Seepage to L-31N 1986-87 Water Year

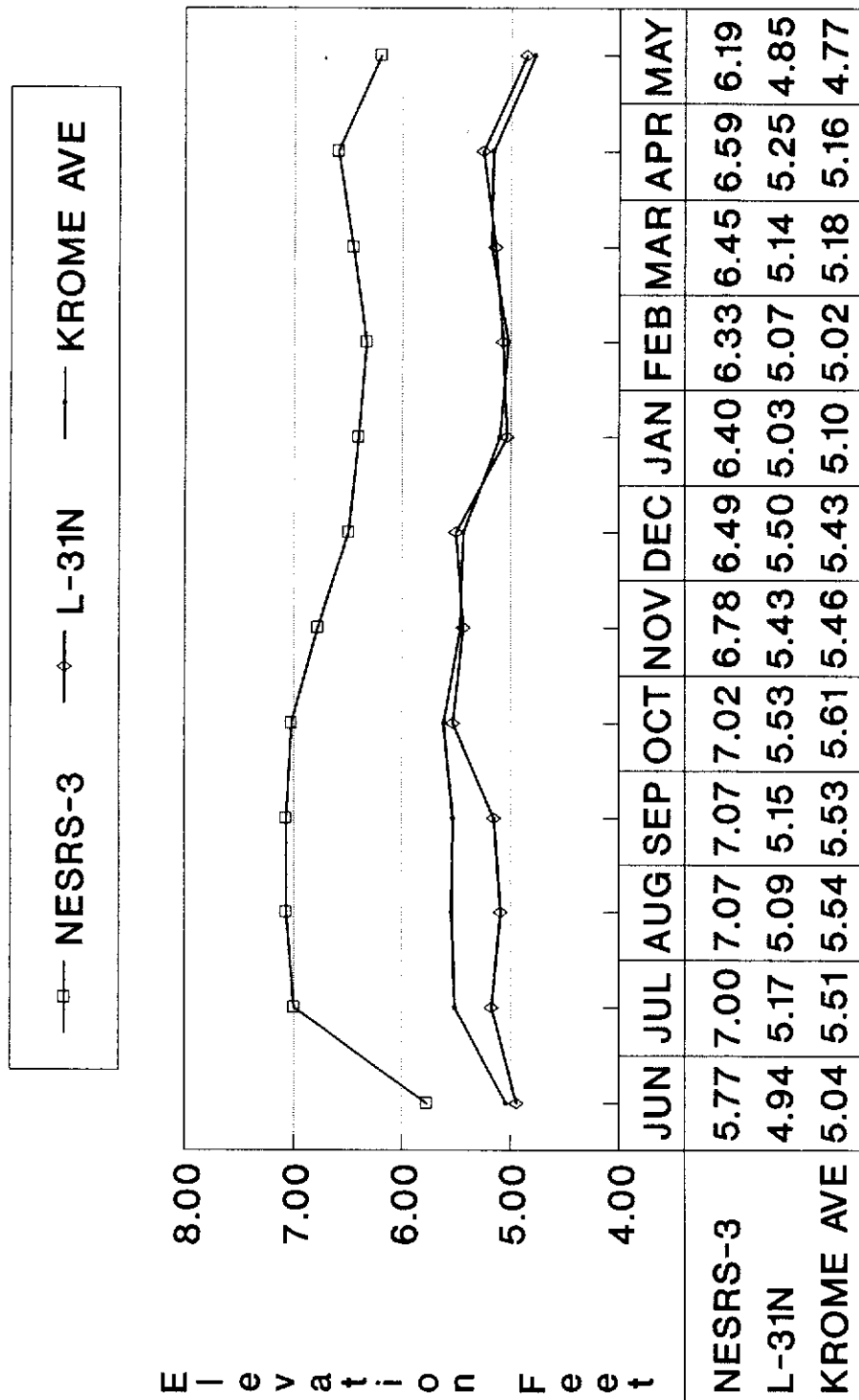


Figure 1

Mean Monthly Stage Differences For Relative Seepage to L-31N 1986-87 Water Year

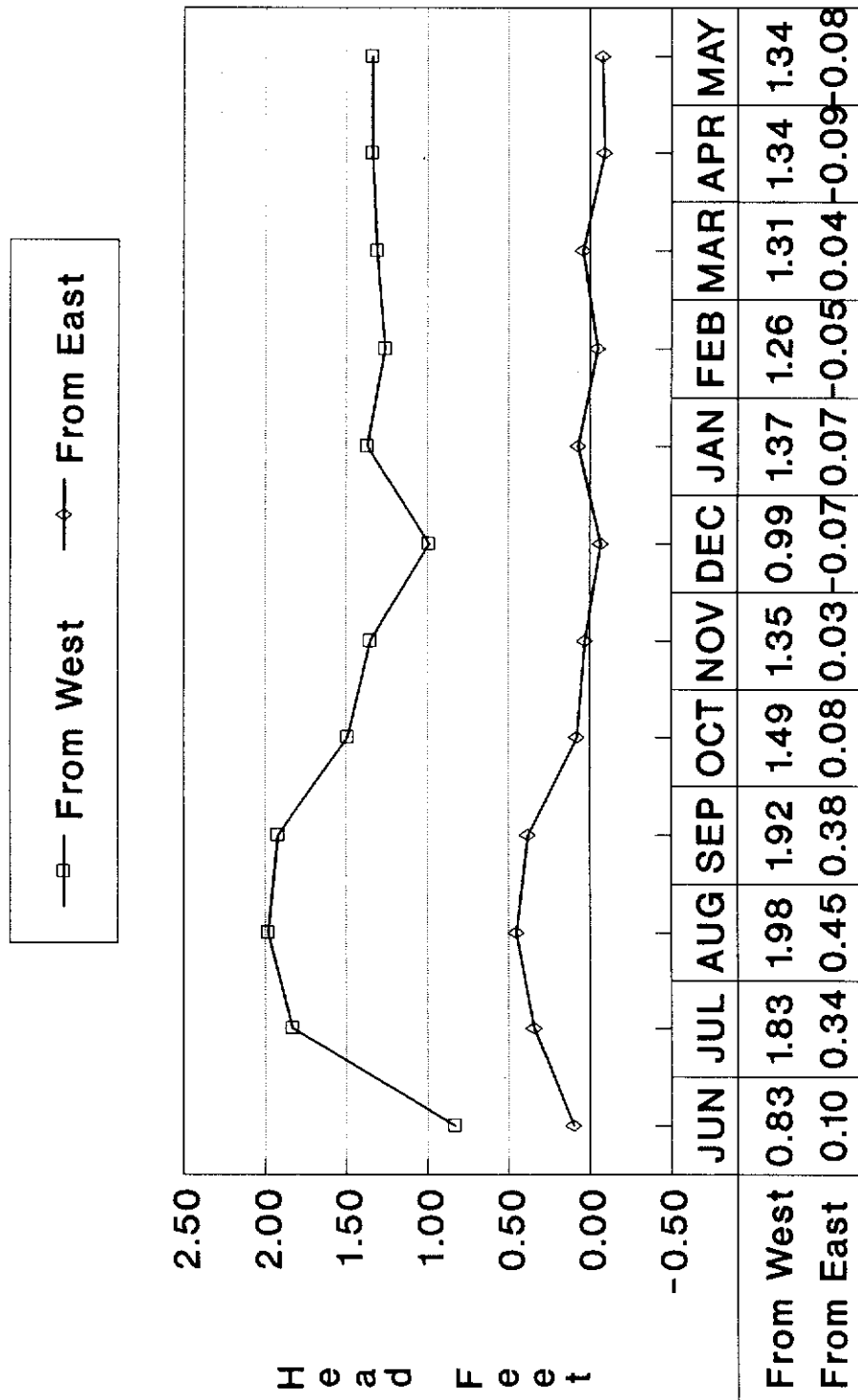


Figure 2

Monthly Rainfall at S-331

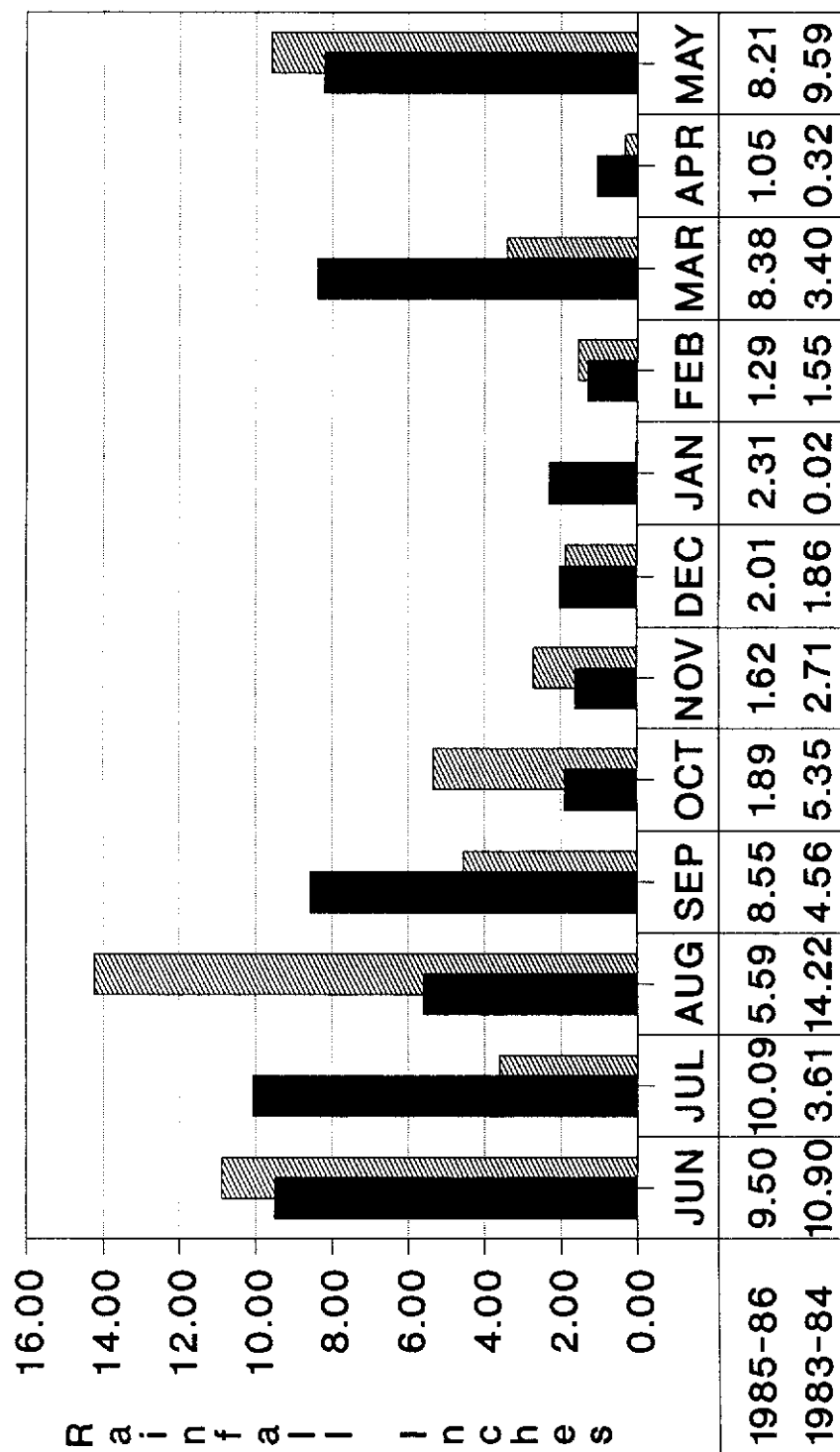
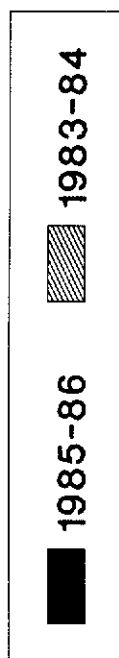
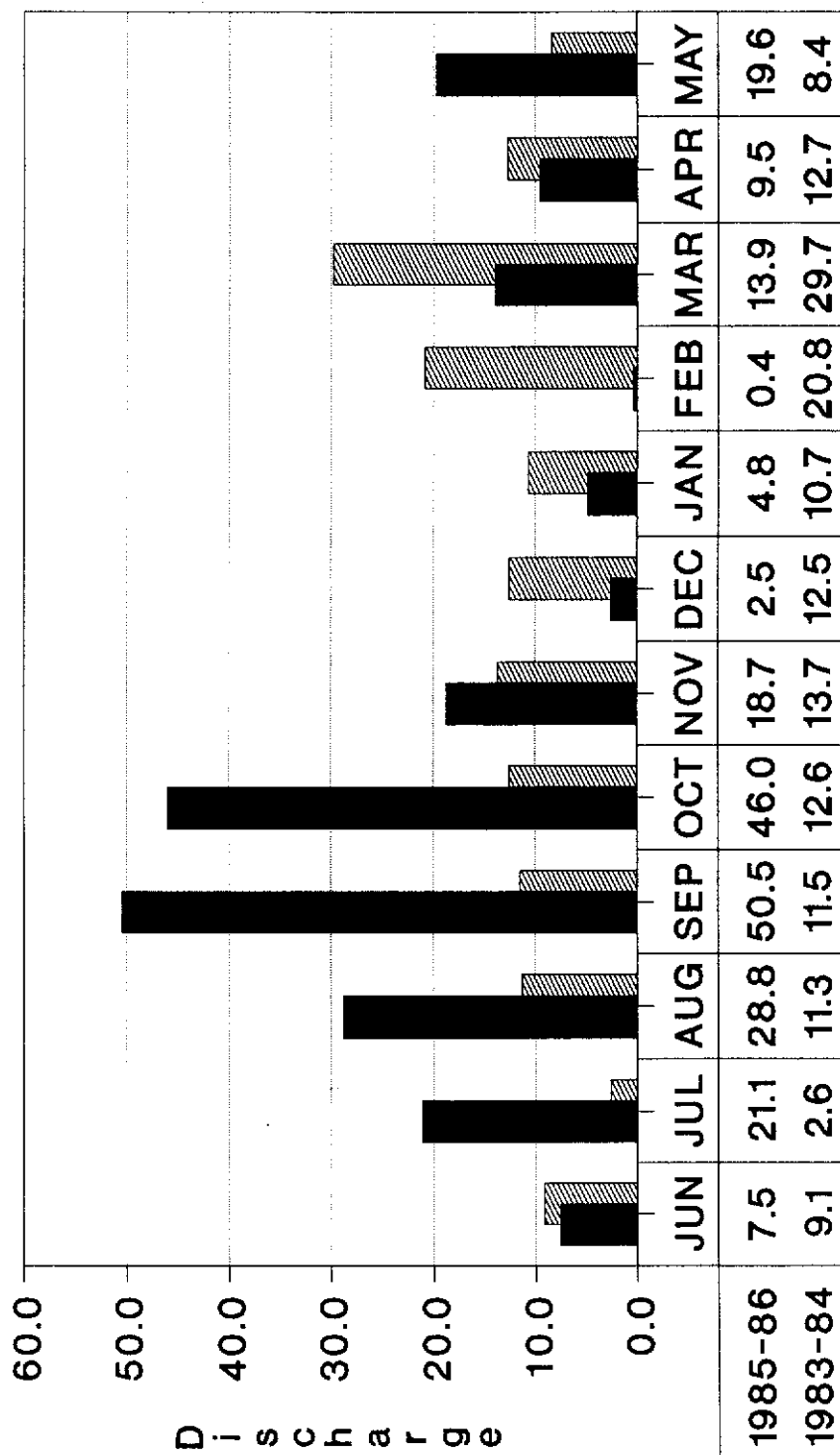
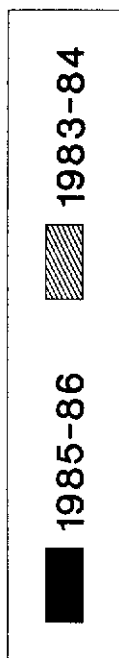


Figure 3

Monthly Pumping at S-331



Note: Discharges are in Acre-feet x 1000

Figure 4

Monthly Average Stages Upstream of S-176

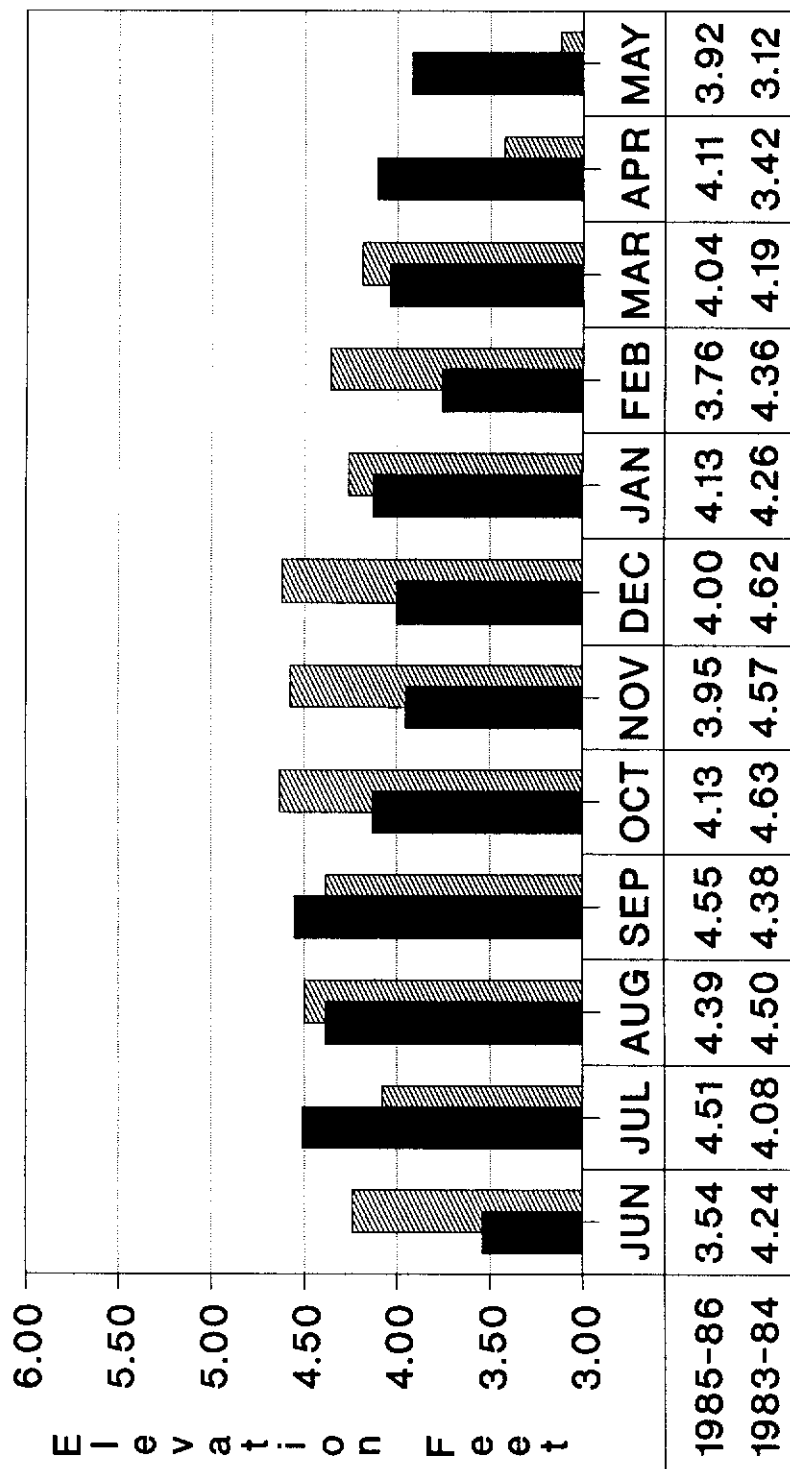
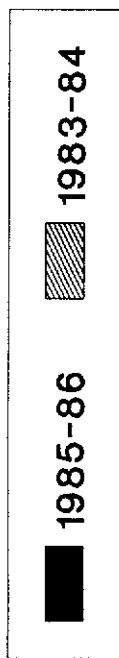


Figure 5

Monthly Average Stages Downstream of S-331

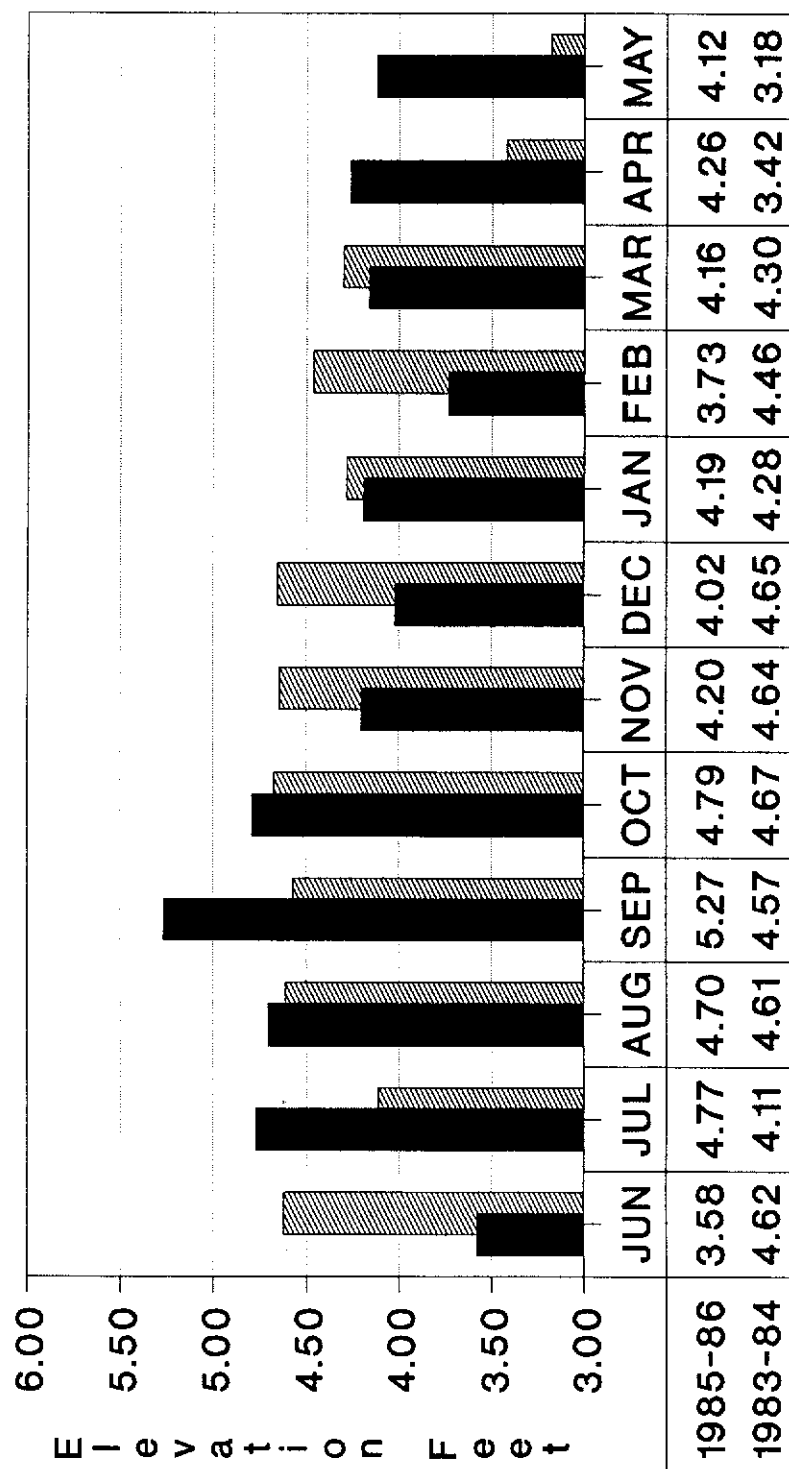
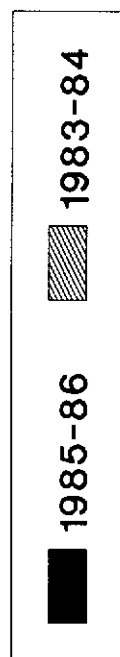


Figure 6

Monthly Average Gradients S-331 Stage Minus S-176 Stage

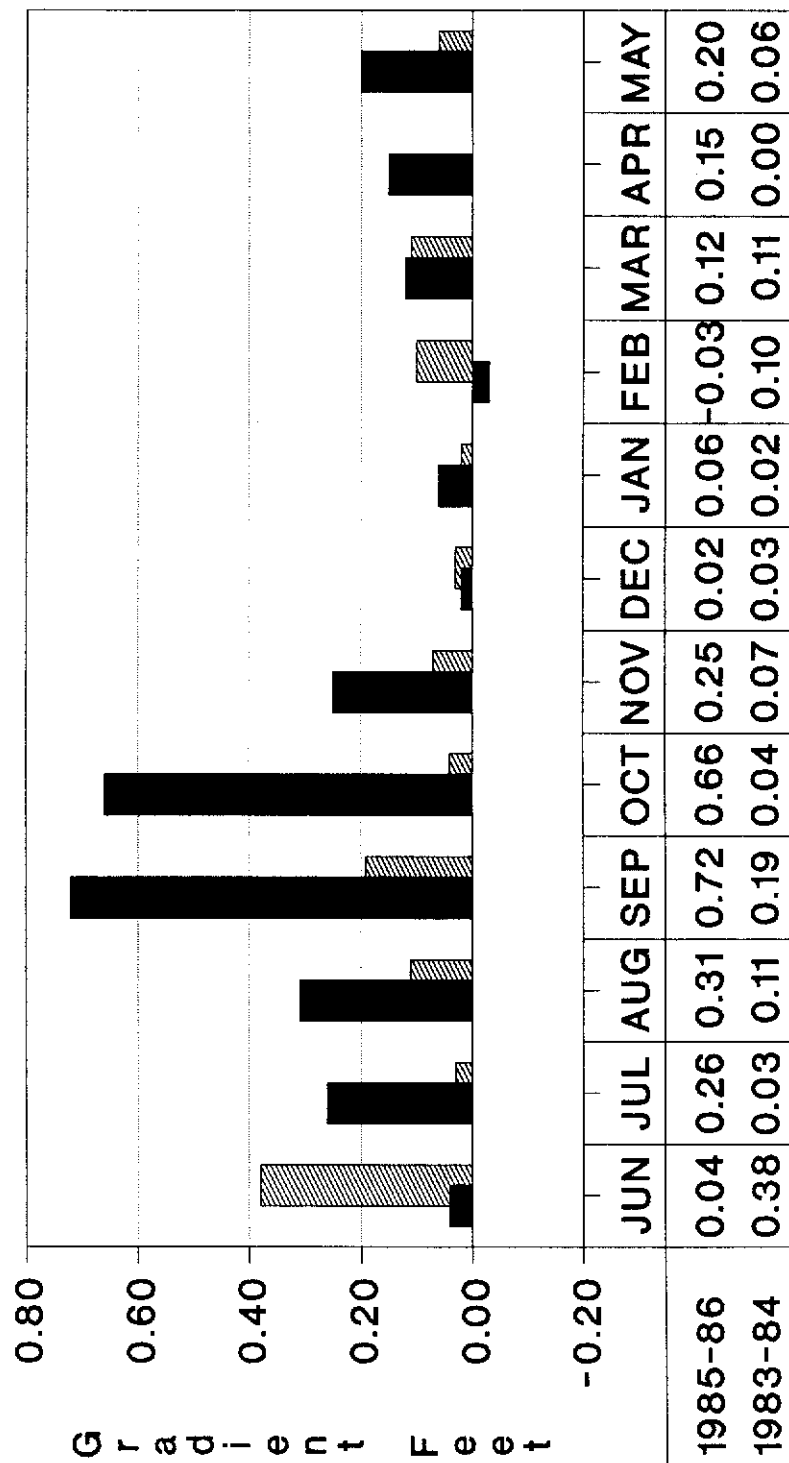
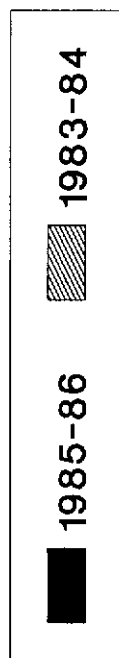


Figure 7